

FIG. 1
(PRIOR ART)

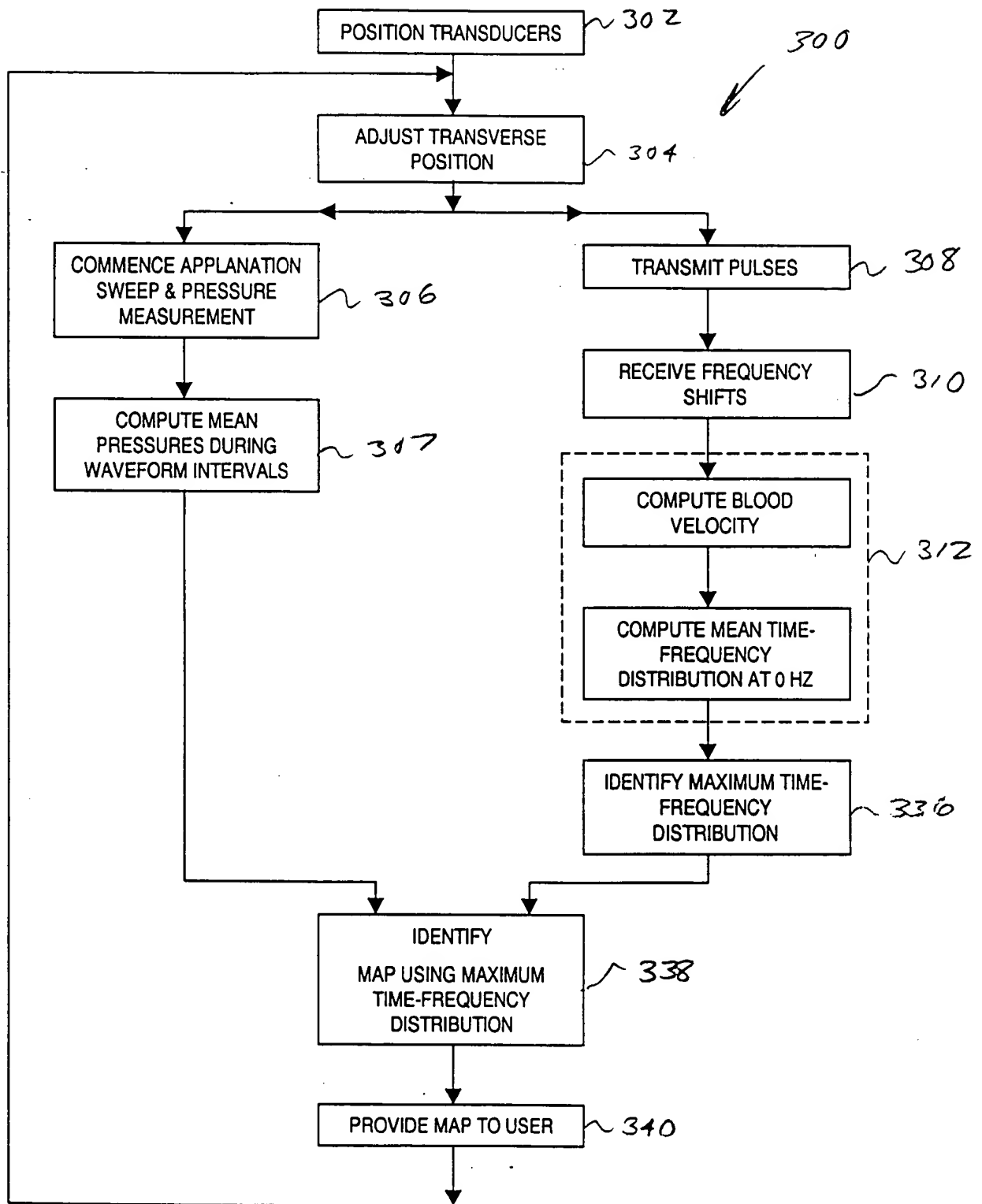


FIG. 3A

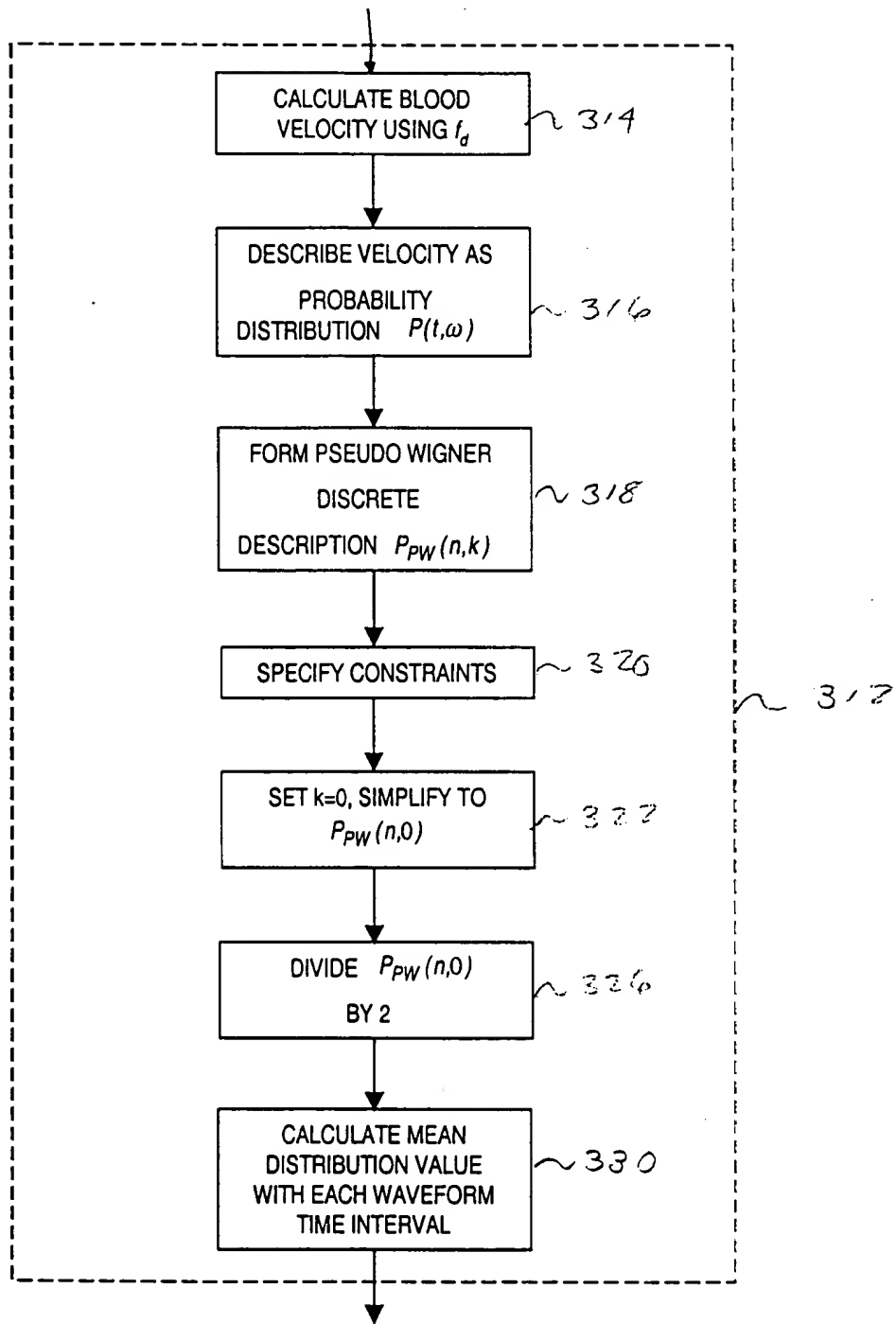


FIG. 36

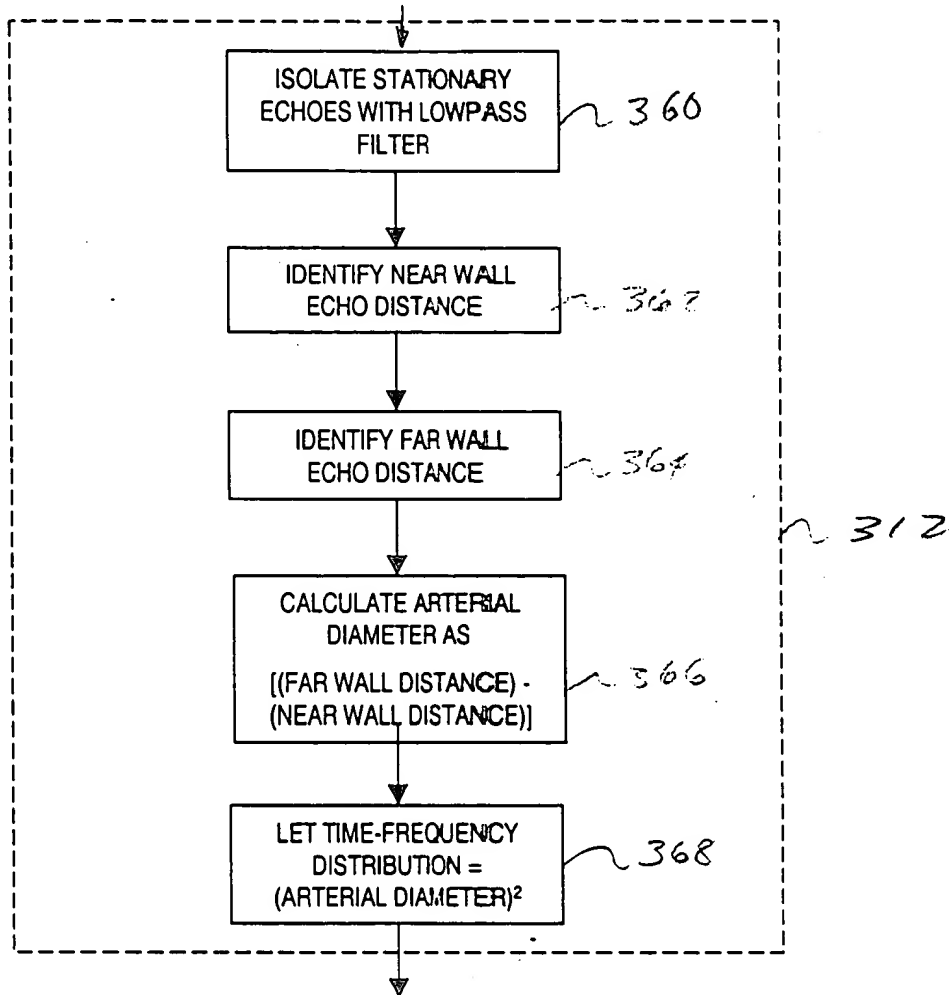


FIG. 3C

FIG. 4a

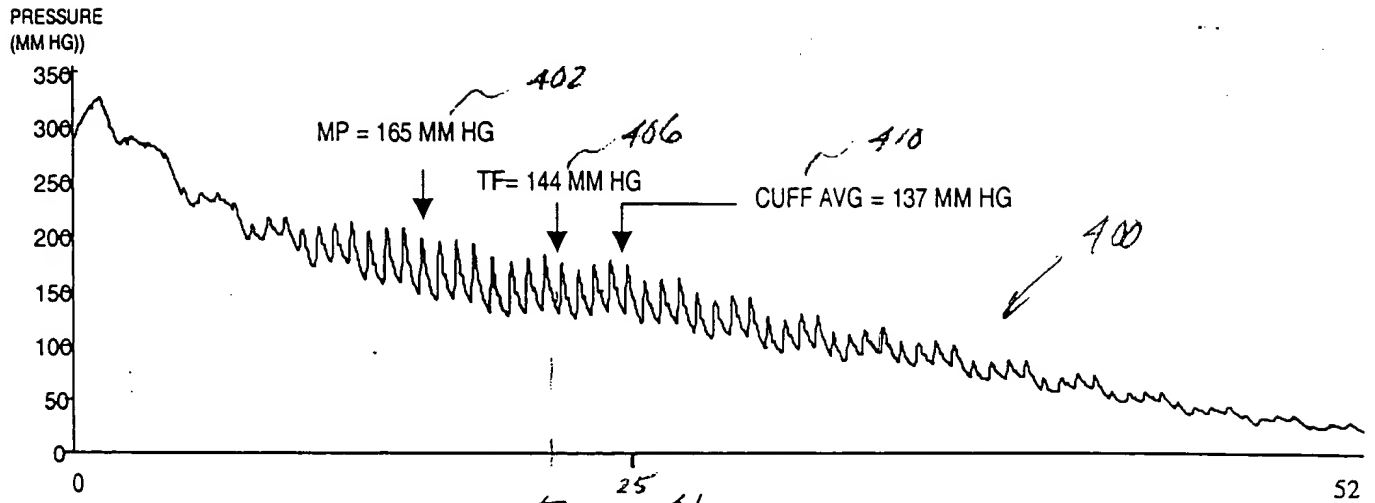
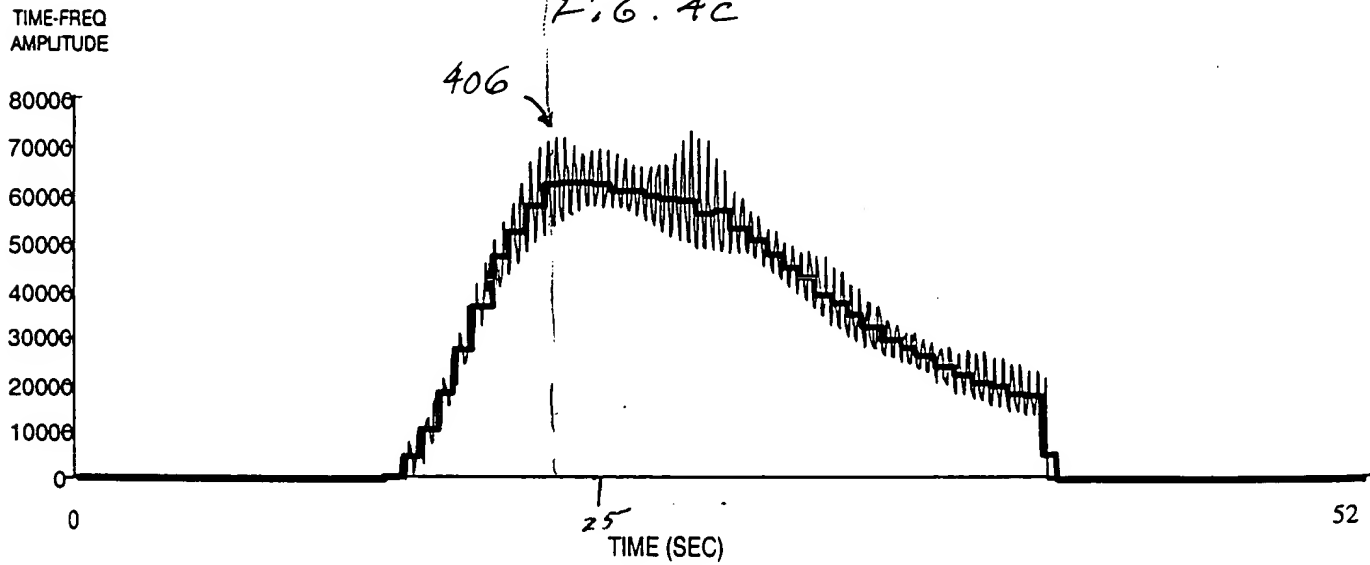
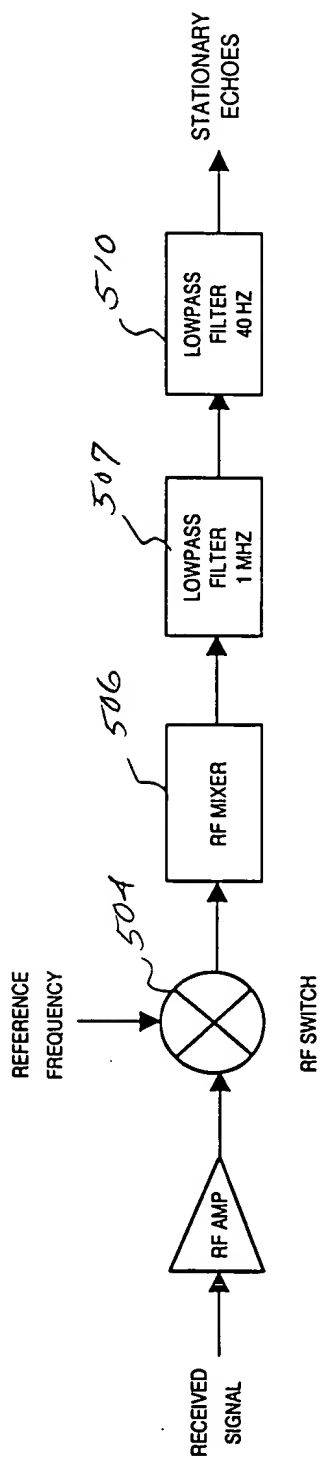
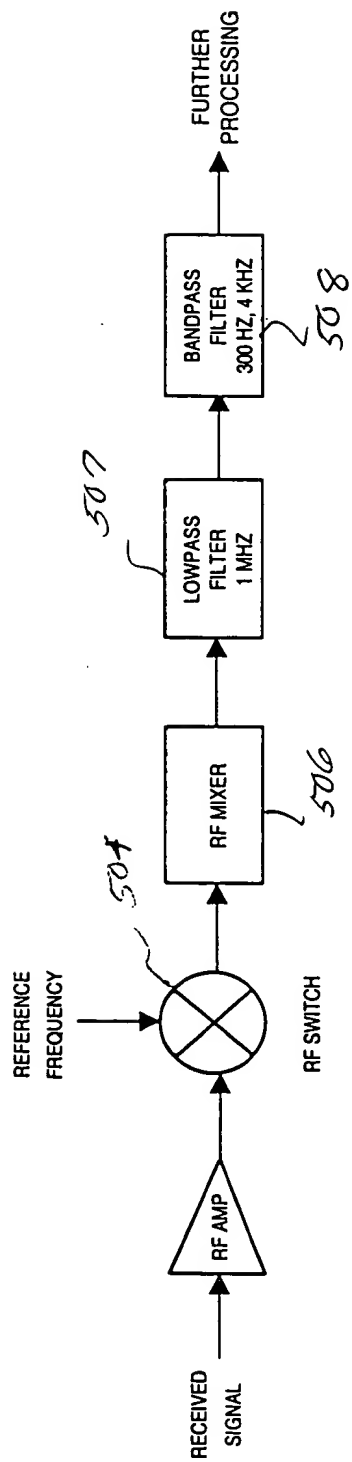


FIG. 4b



FIG. 4c





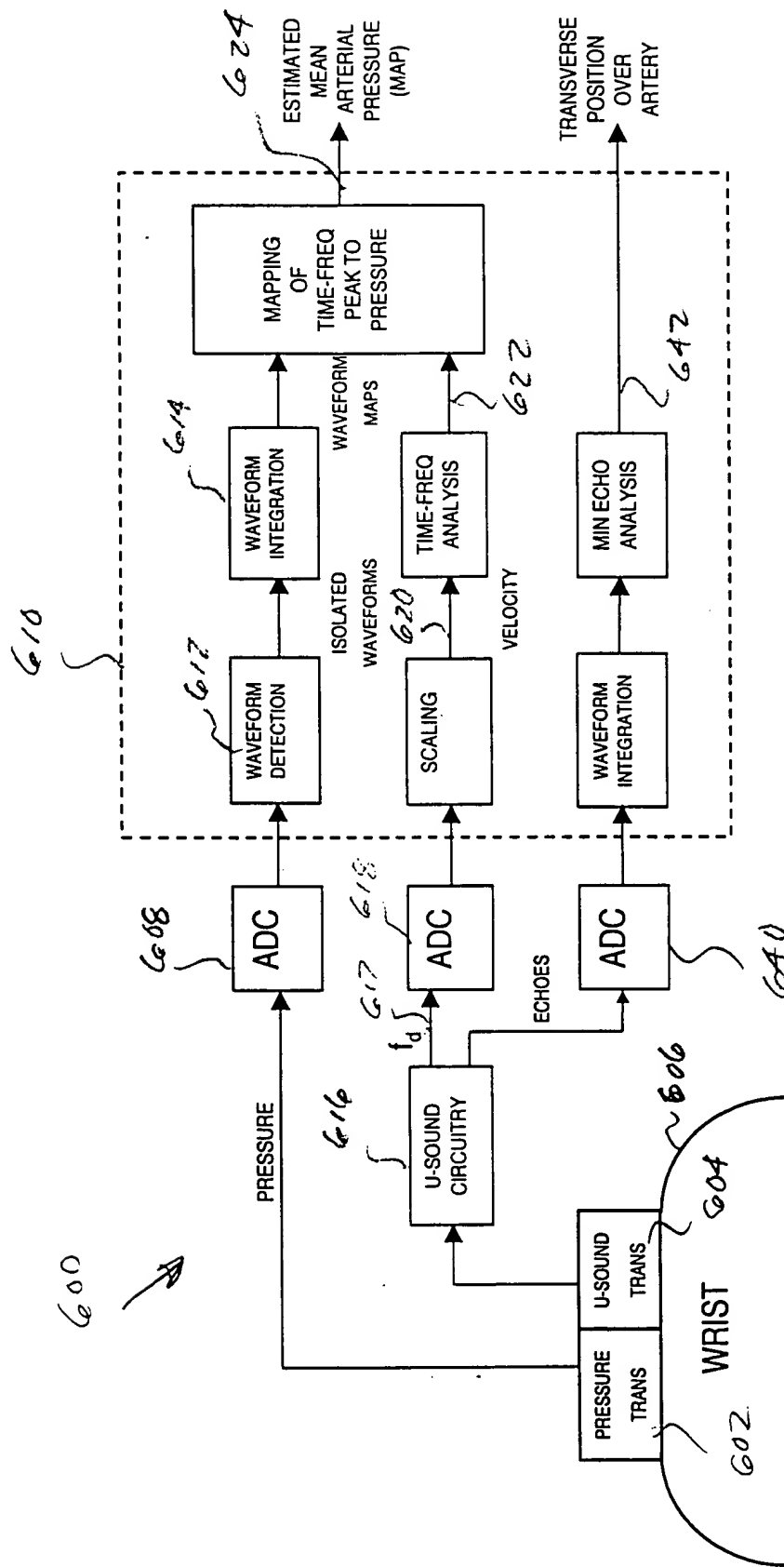


FIG. 6

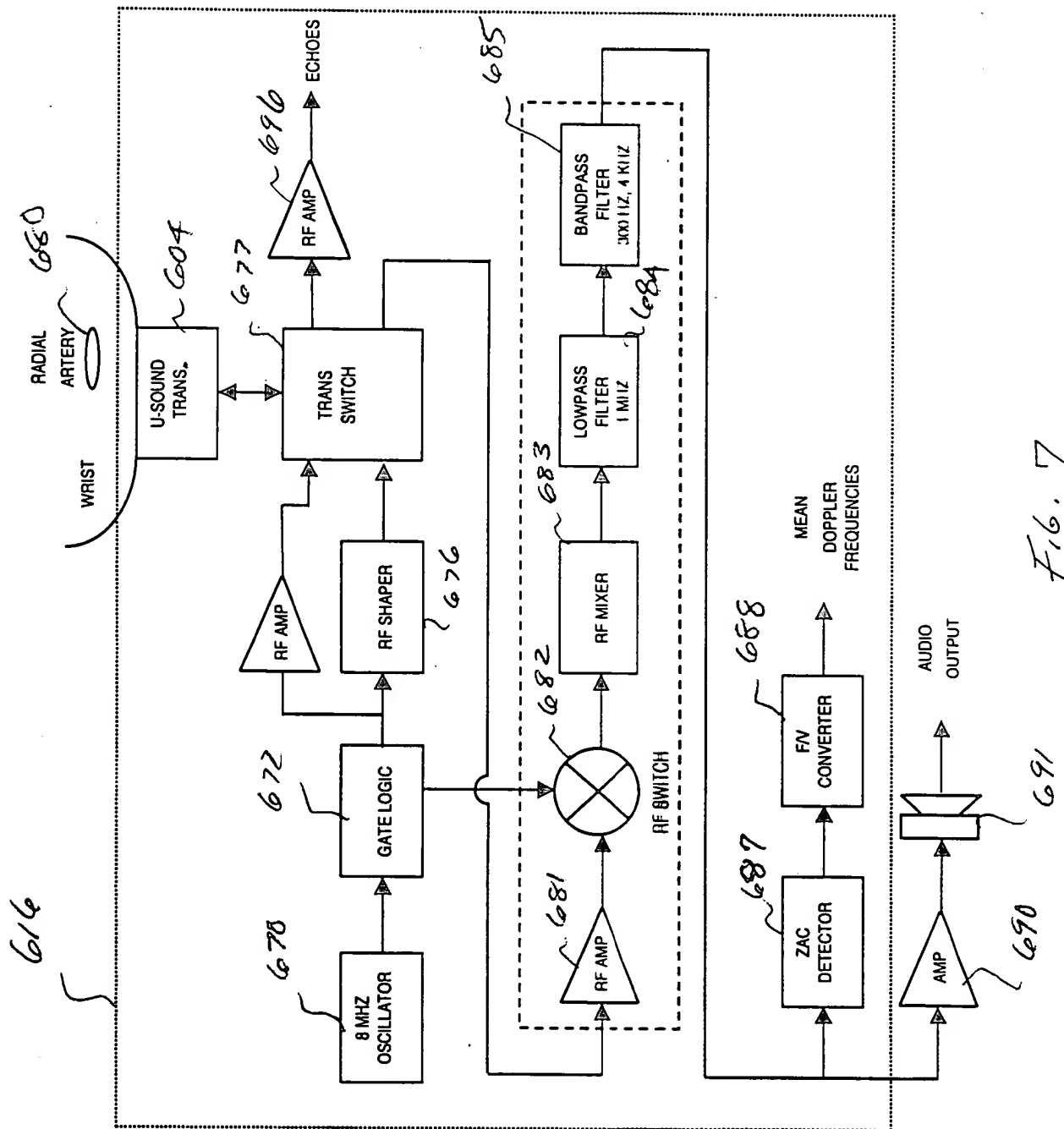
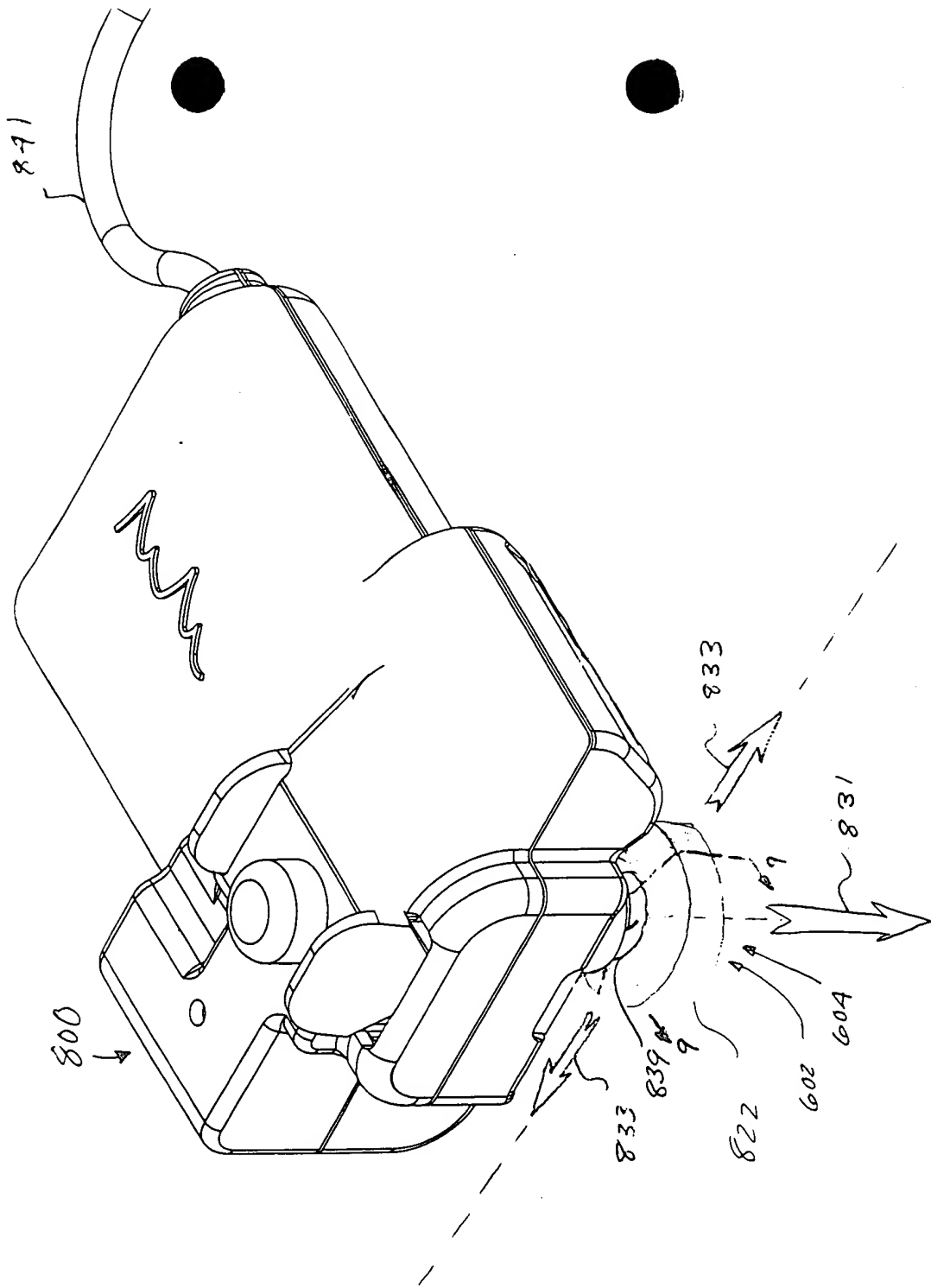


FIG. 8



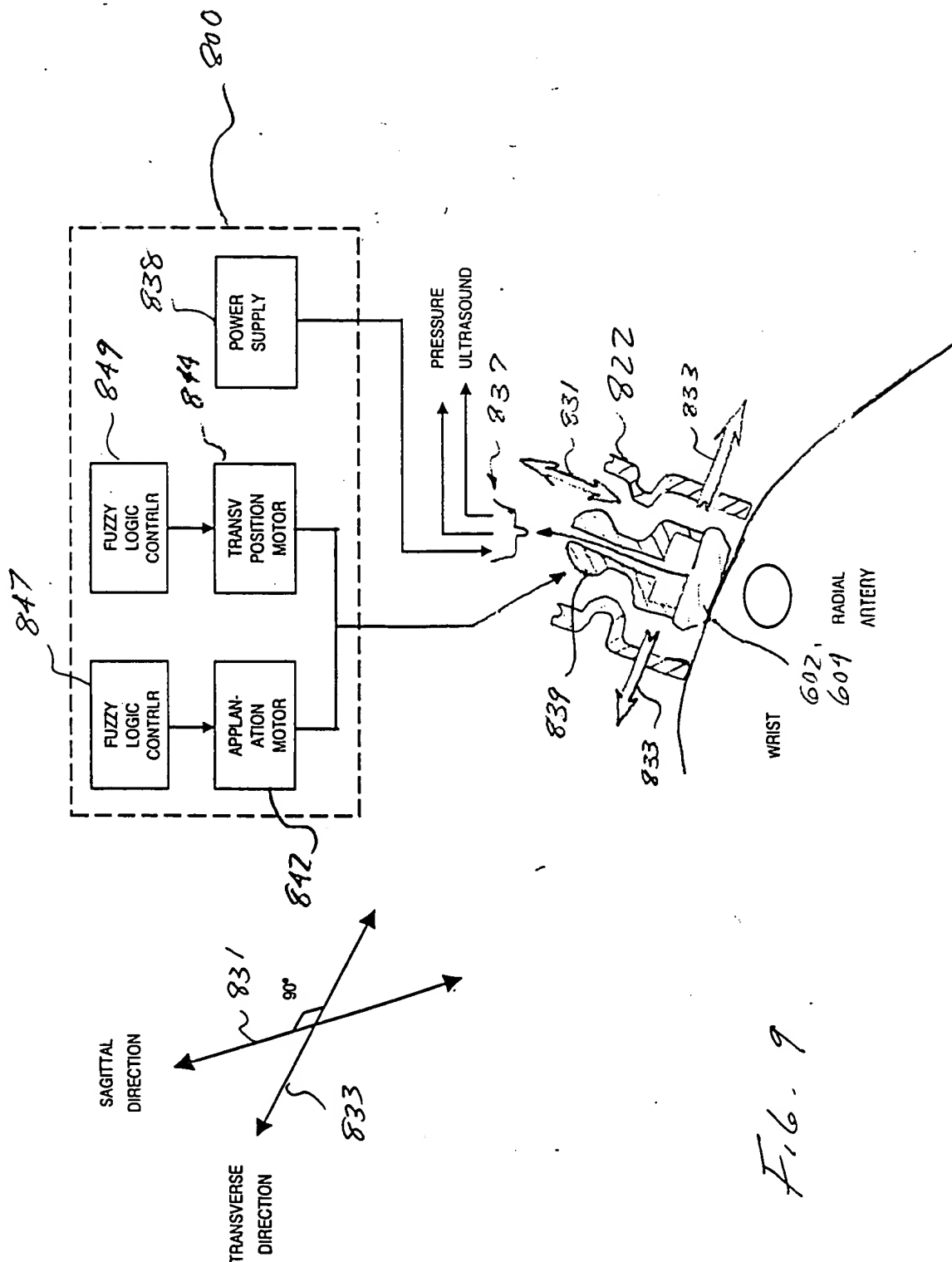


Fig. 9

Feb. 10

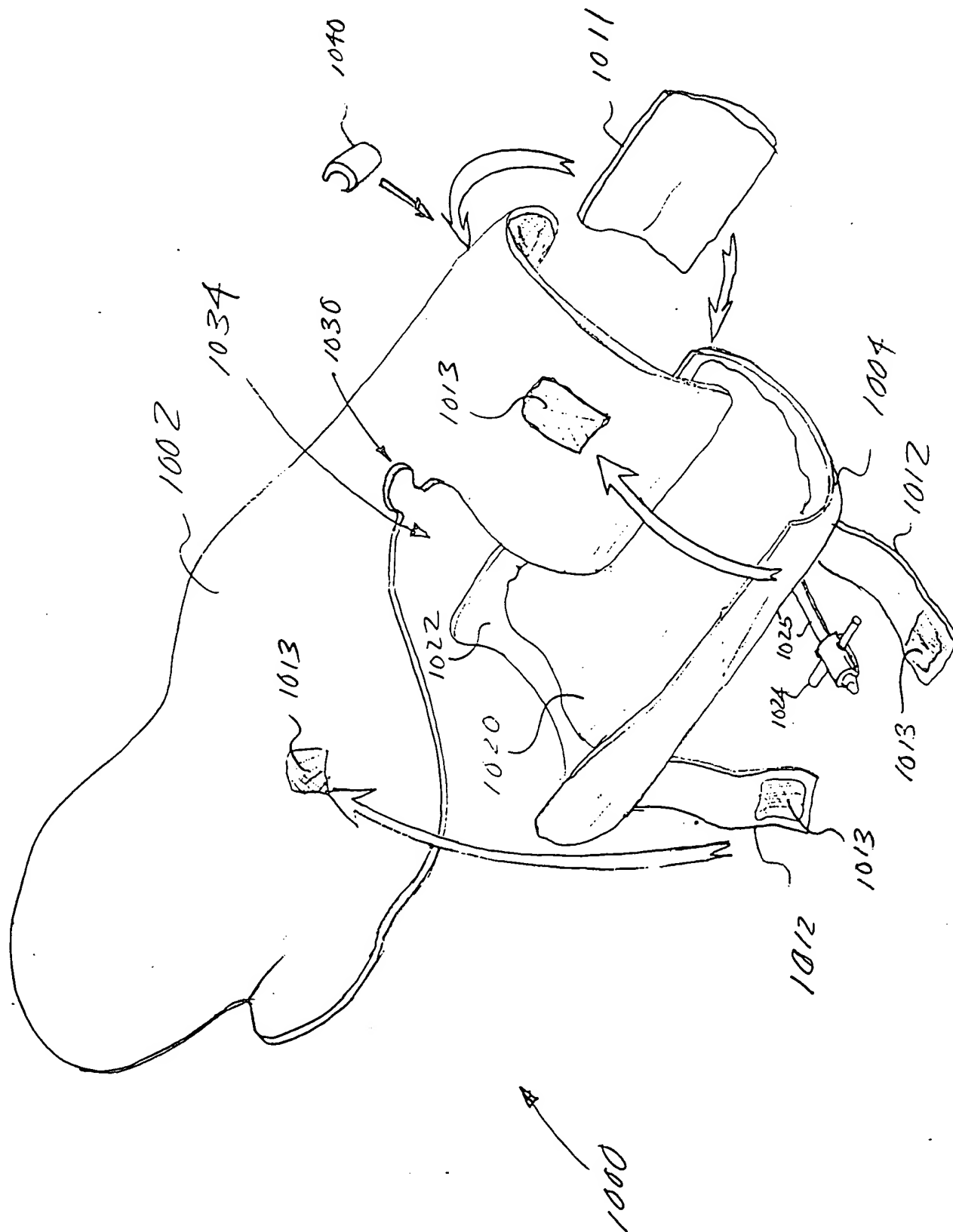


FIG. 11

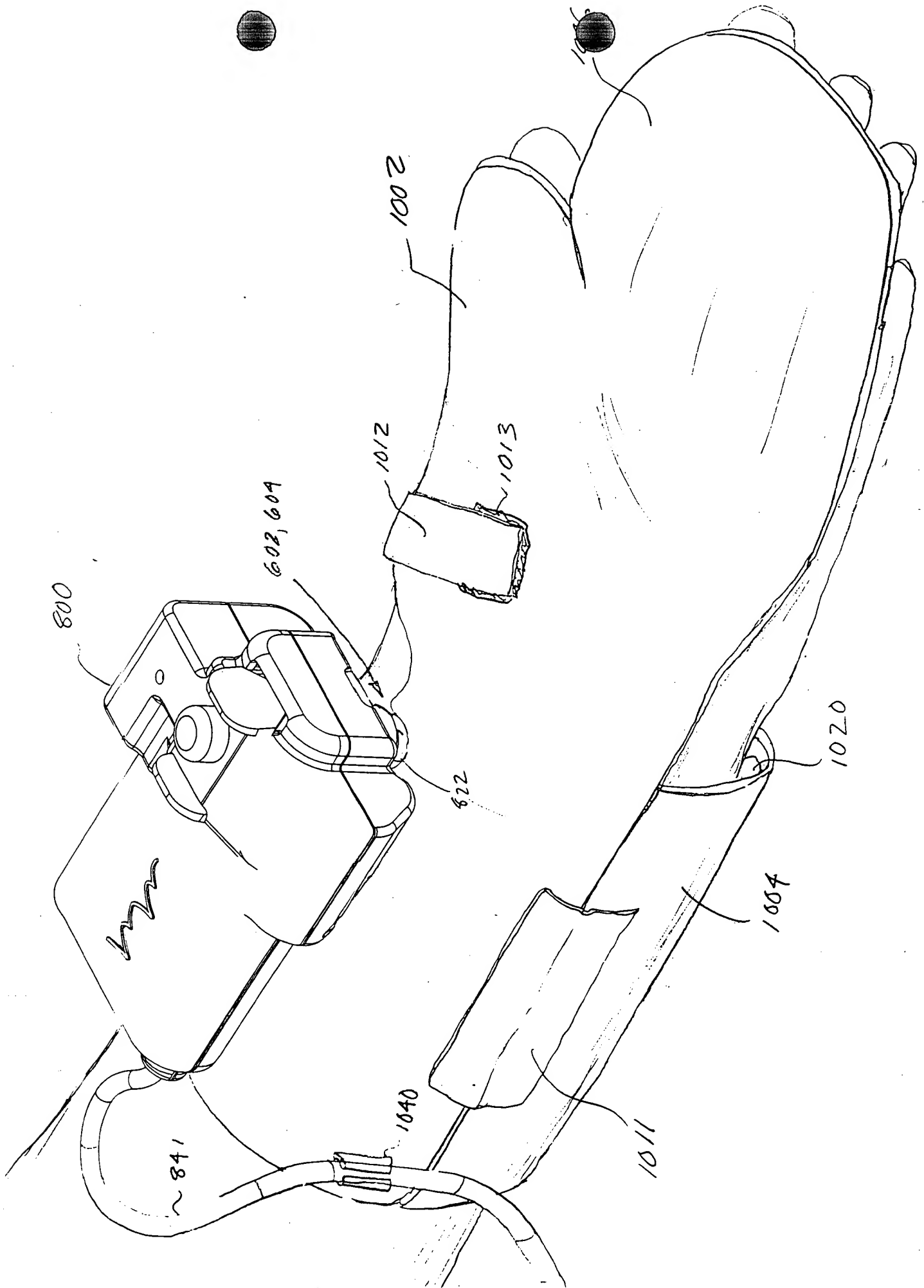
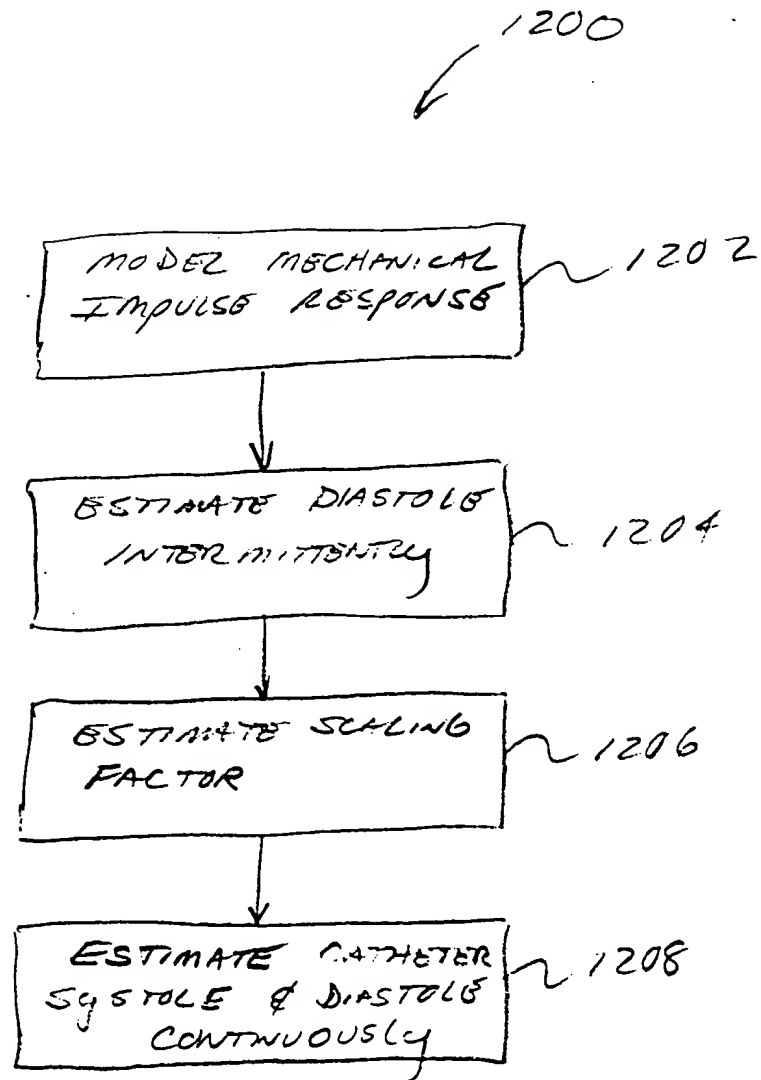


FIG. 12



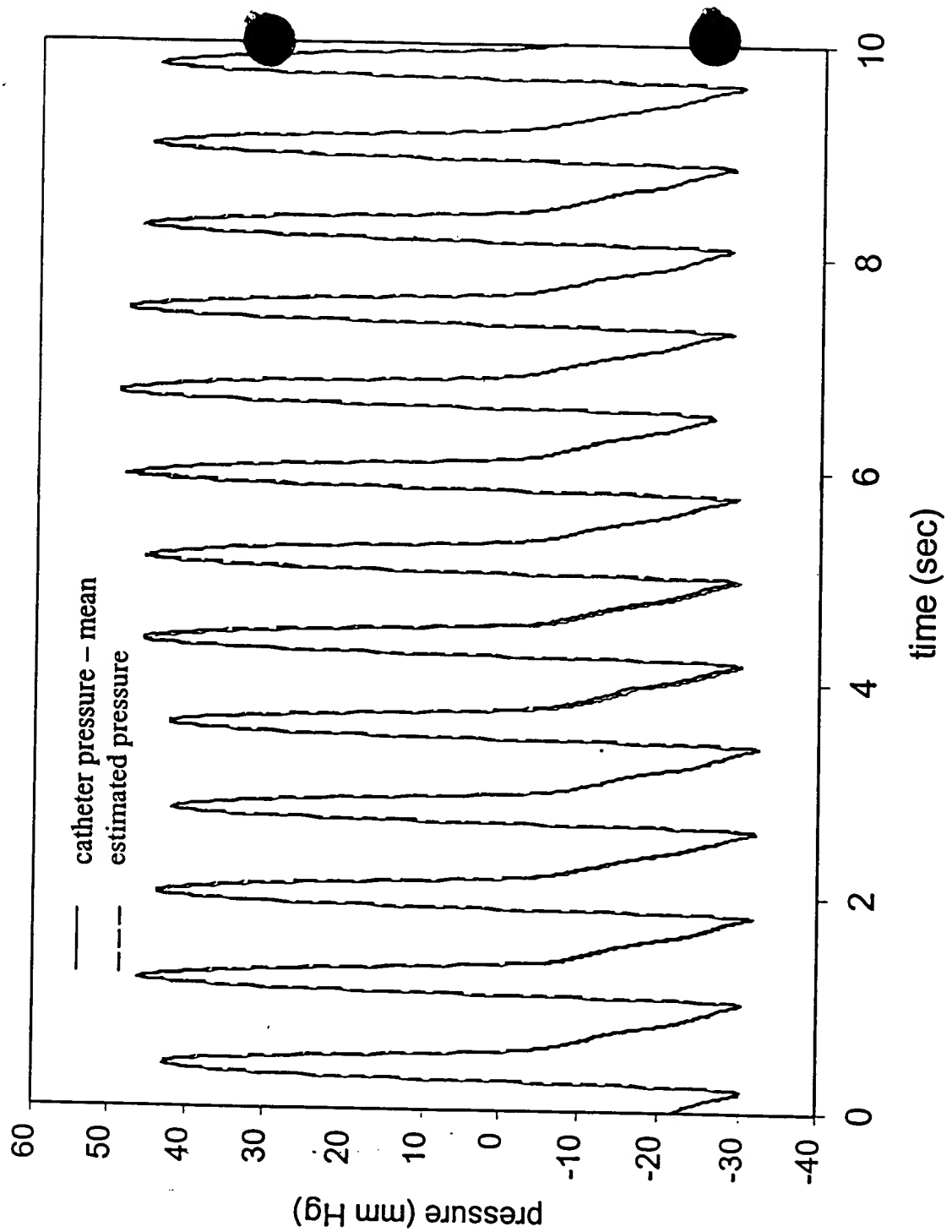


FIG. 13

FIG. 1Aa

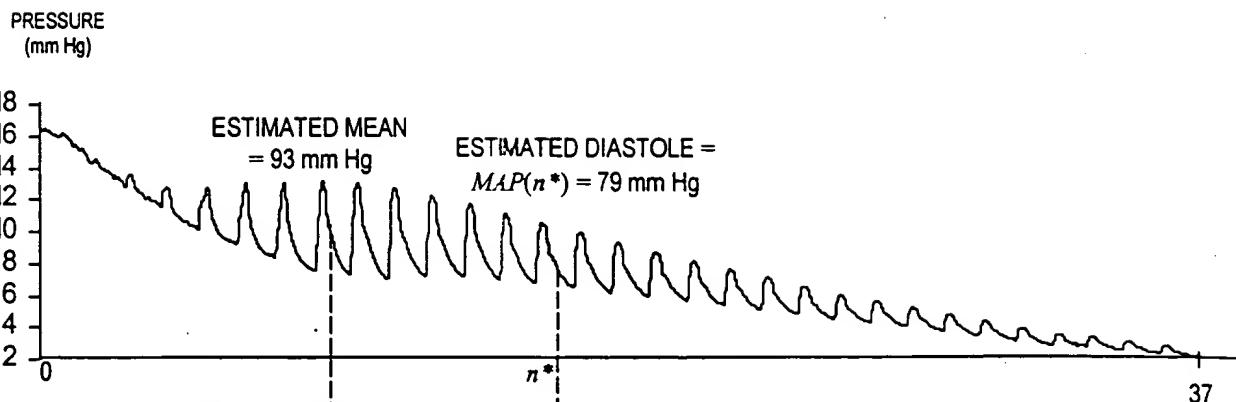


FIG. 1Ab

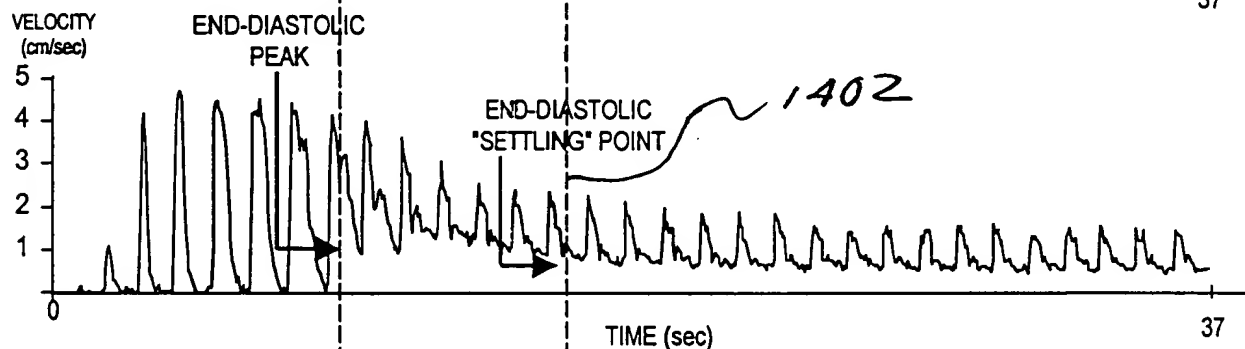


FIG. 1Ac

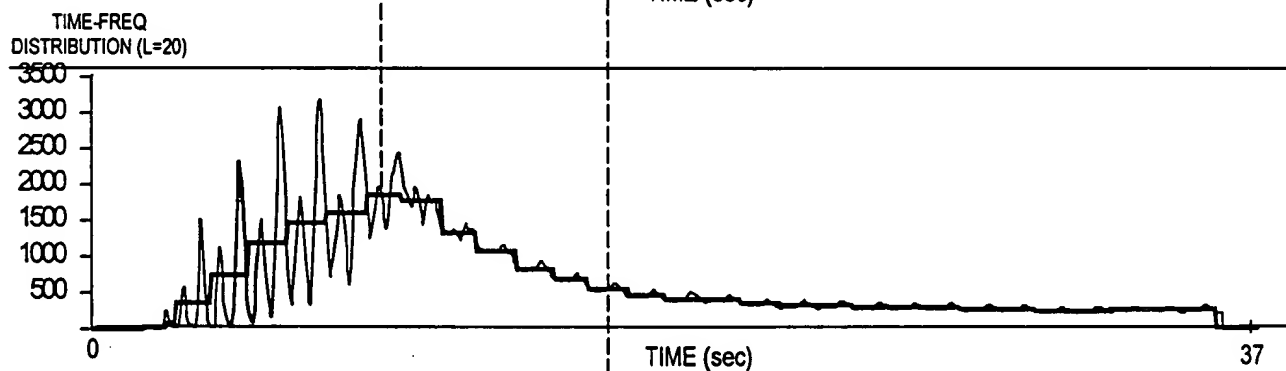
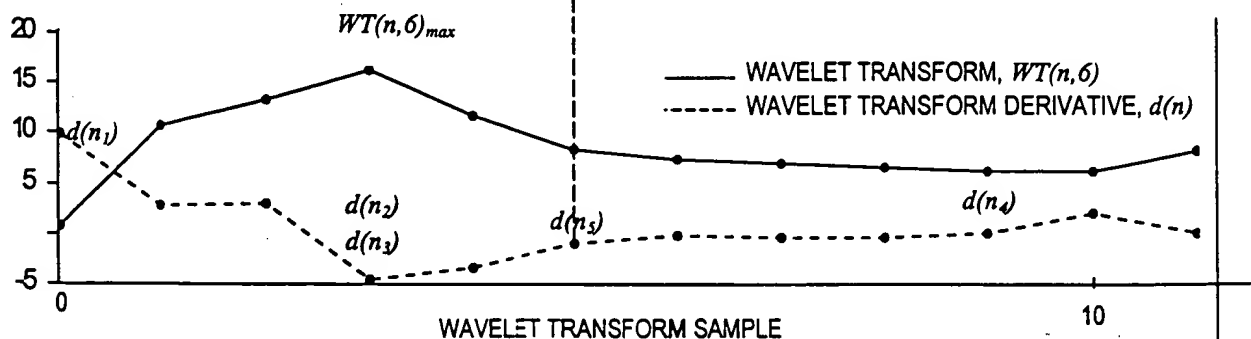


FIG. 1Ad



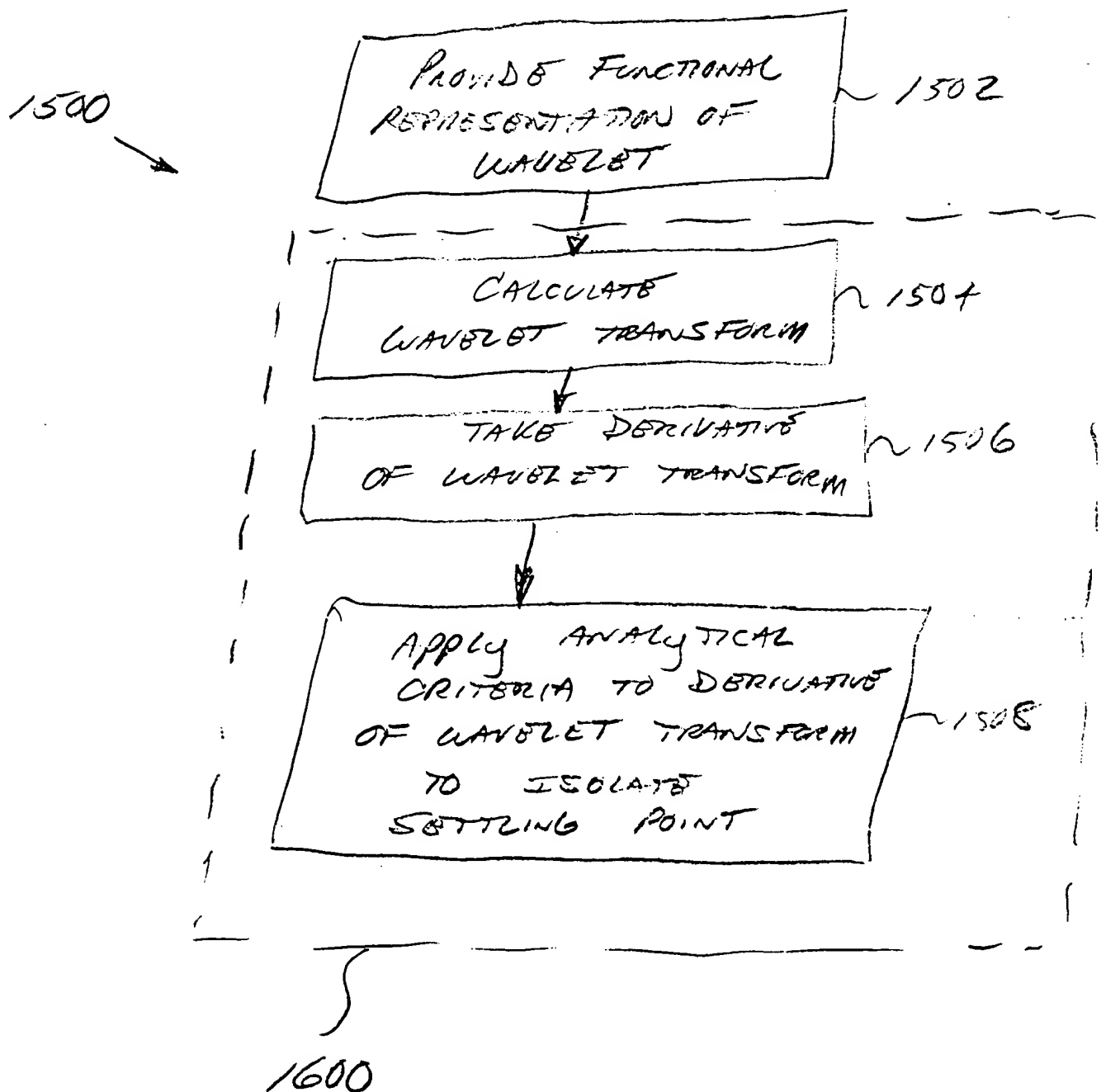
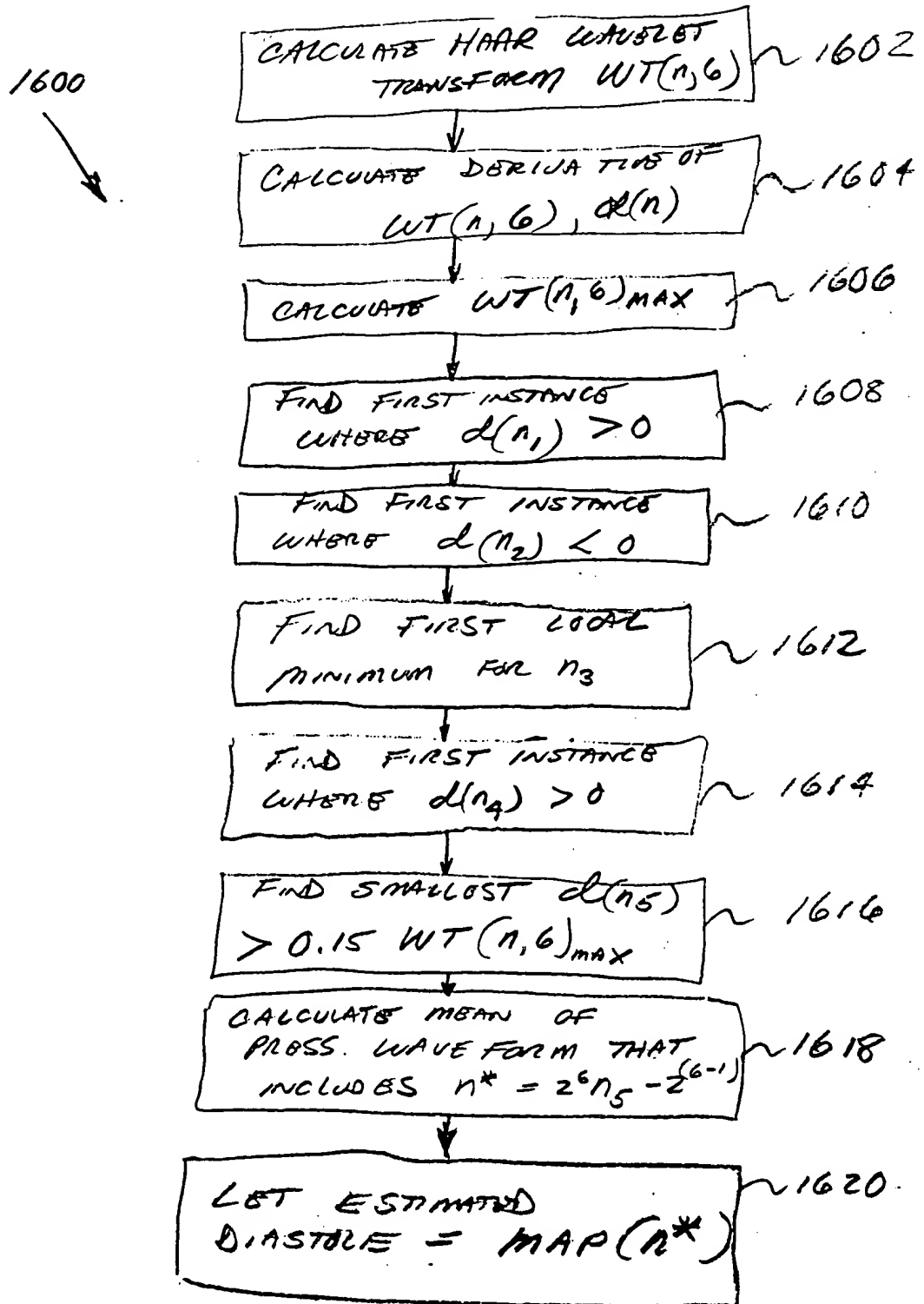


FIG. 16



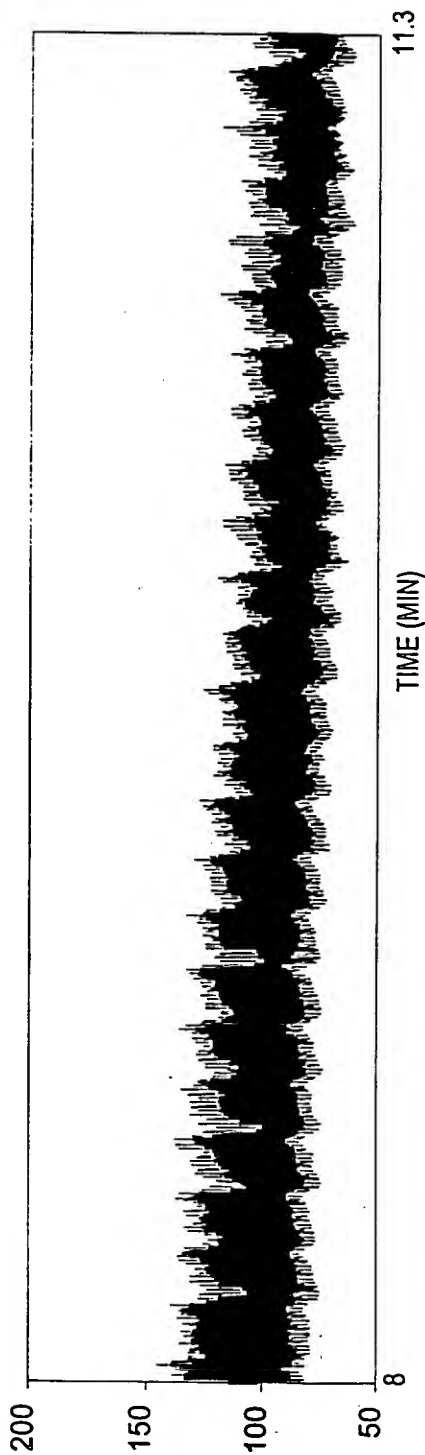
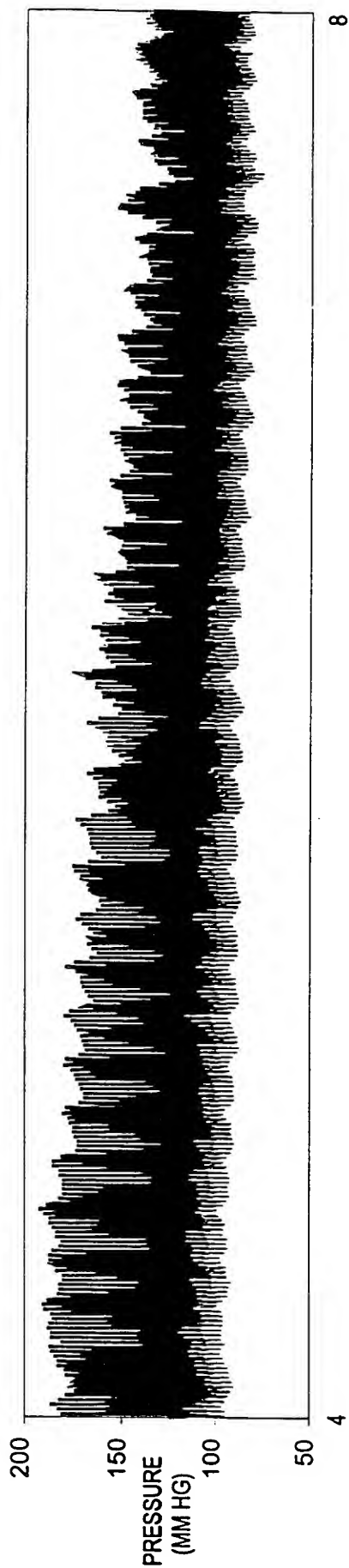
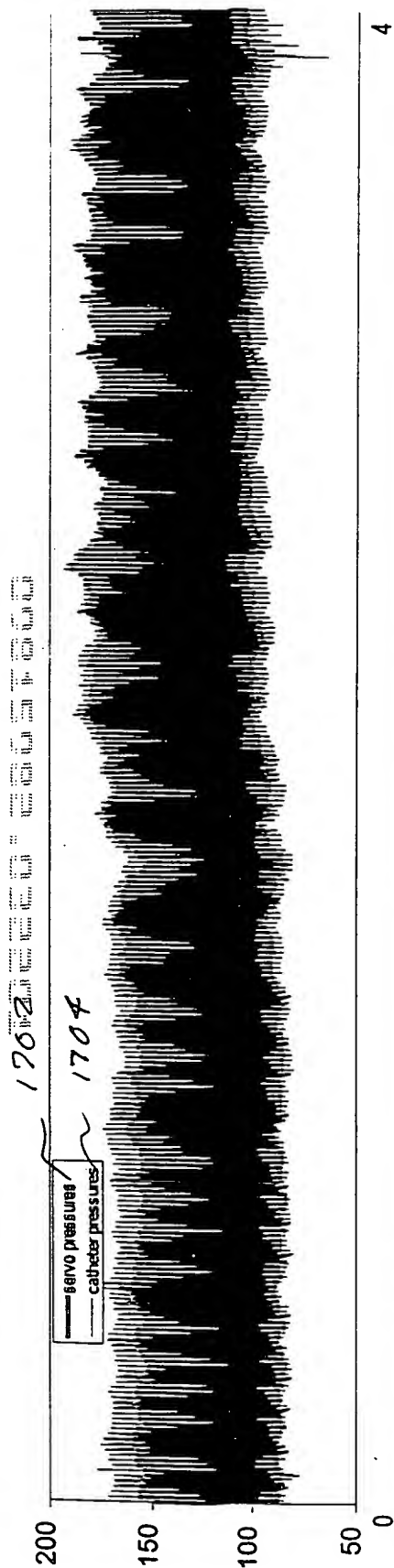
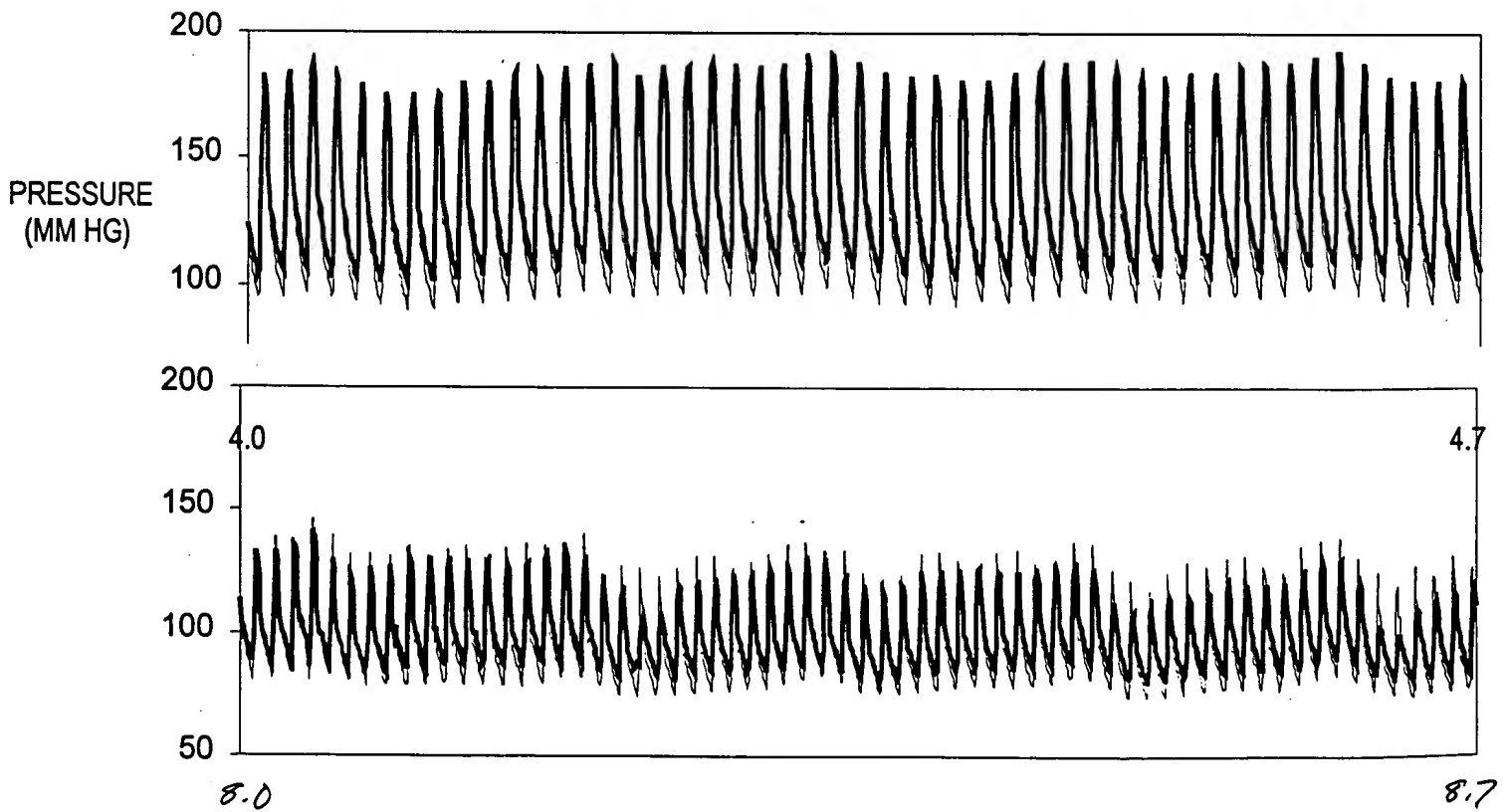
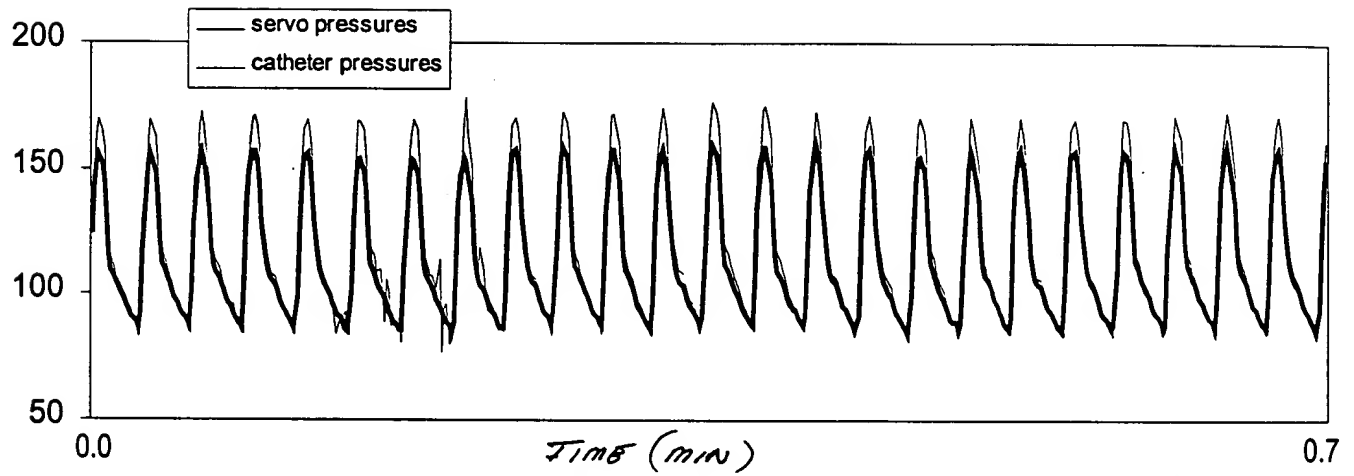


FIG. 17

Fig. 18



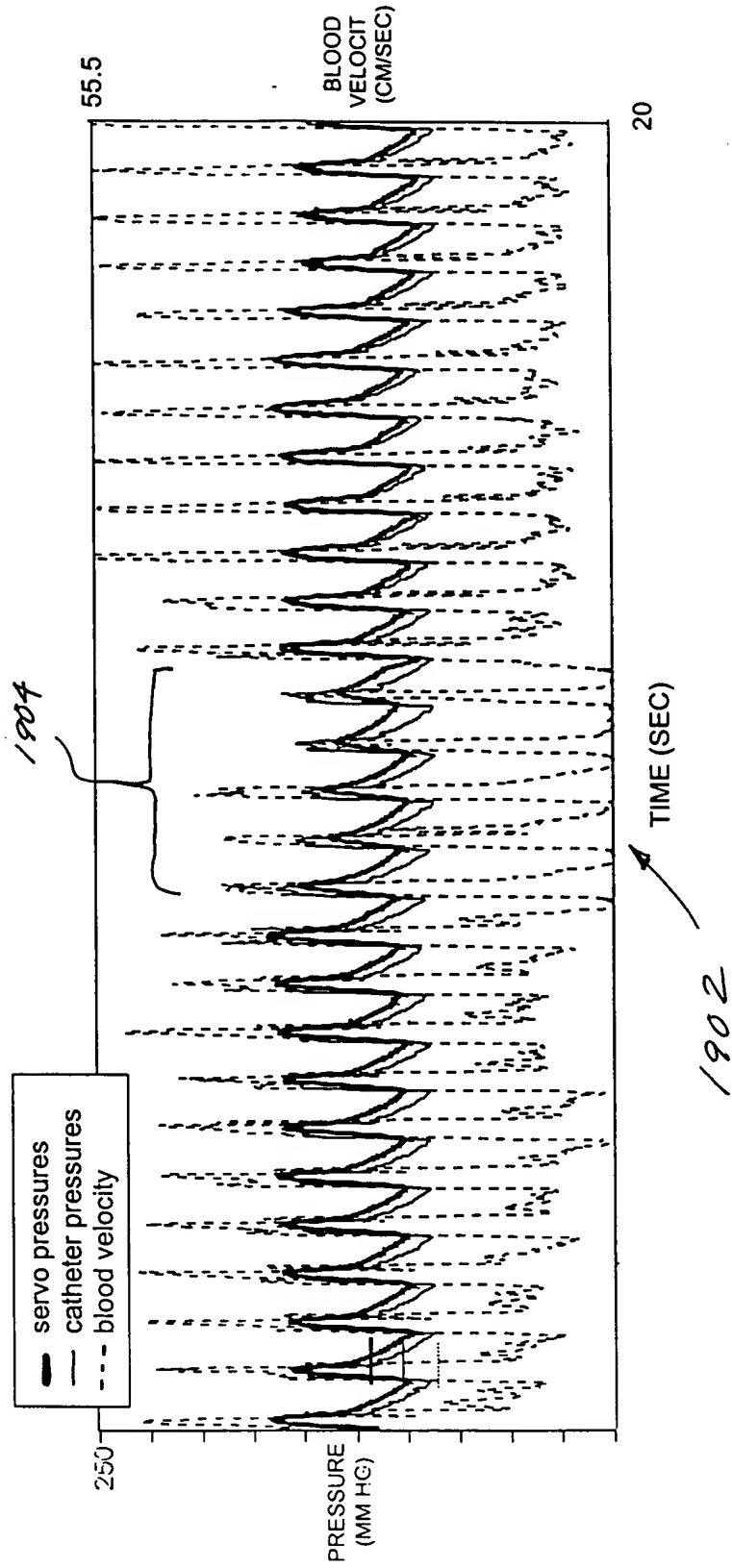


FIG. 19

START

GENERATE &
TRANSMIT
ENERGY
INTO TISSUE

~ 2002

FIG. 20

2000

RECEIVE
BACKSCATTERED
ENERGY FROM
TISSUE & BLOOD VESSEL

~ 2004

CONVERT
BACKSCATTERED
ENERGY TO
"A-MODE" FORMAT

~ 2006

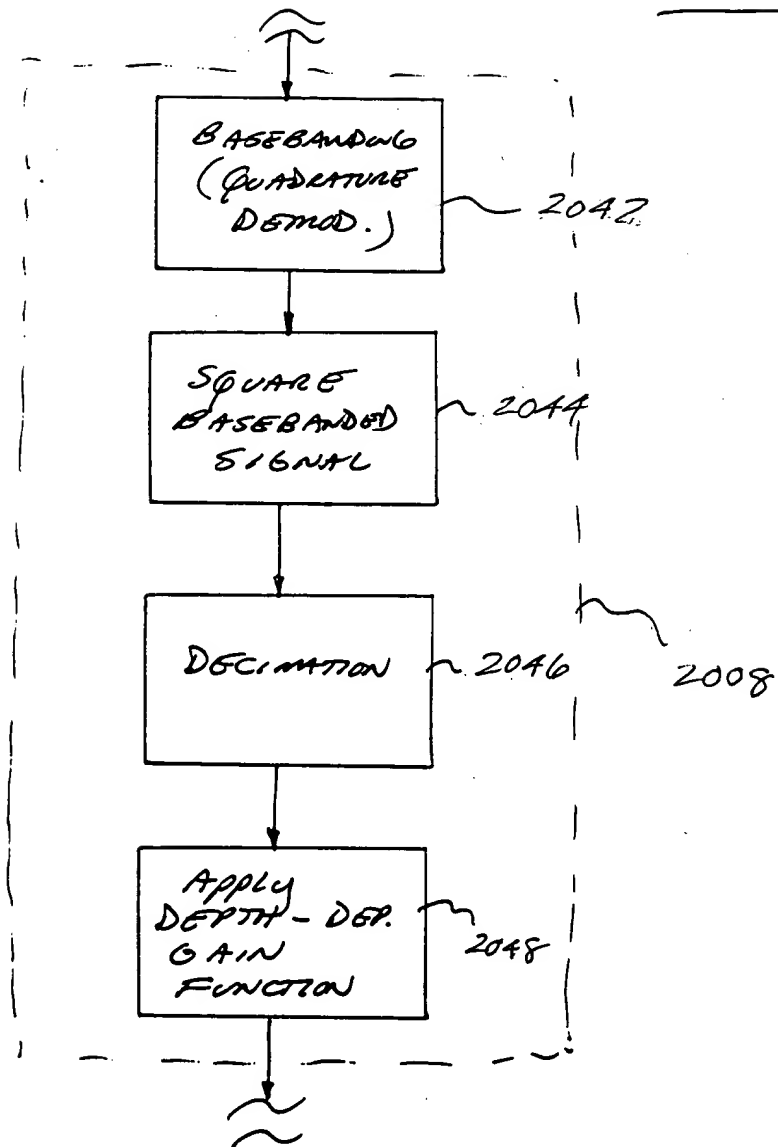
APPLY
SIGNAL
PROCESSING

~ 2008

ANALYZE
PROCESSED
SIGNALS
USING METRIC

~ 2010

FIG. 20a



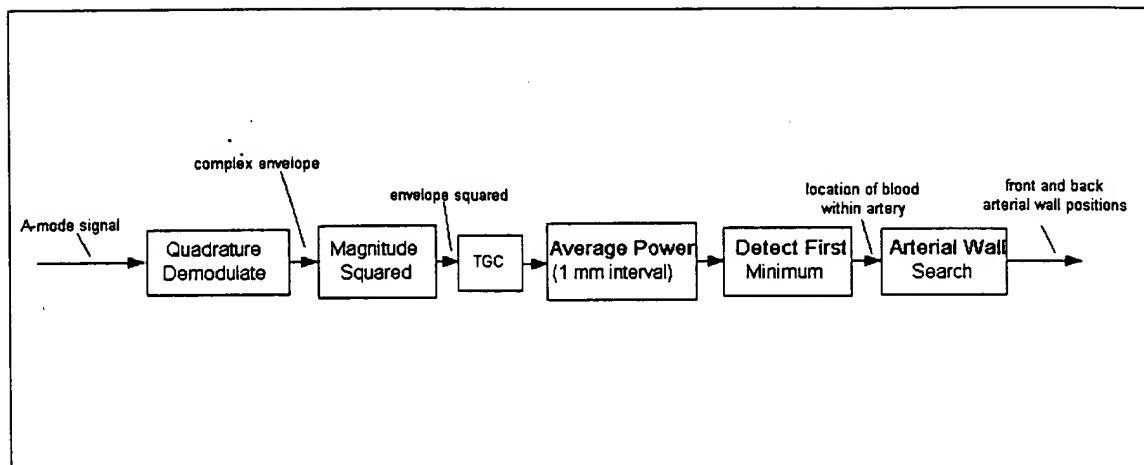


Fig. 3/c

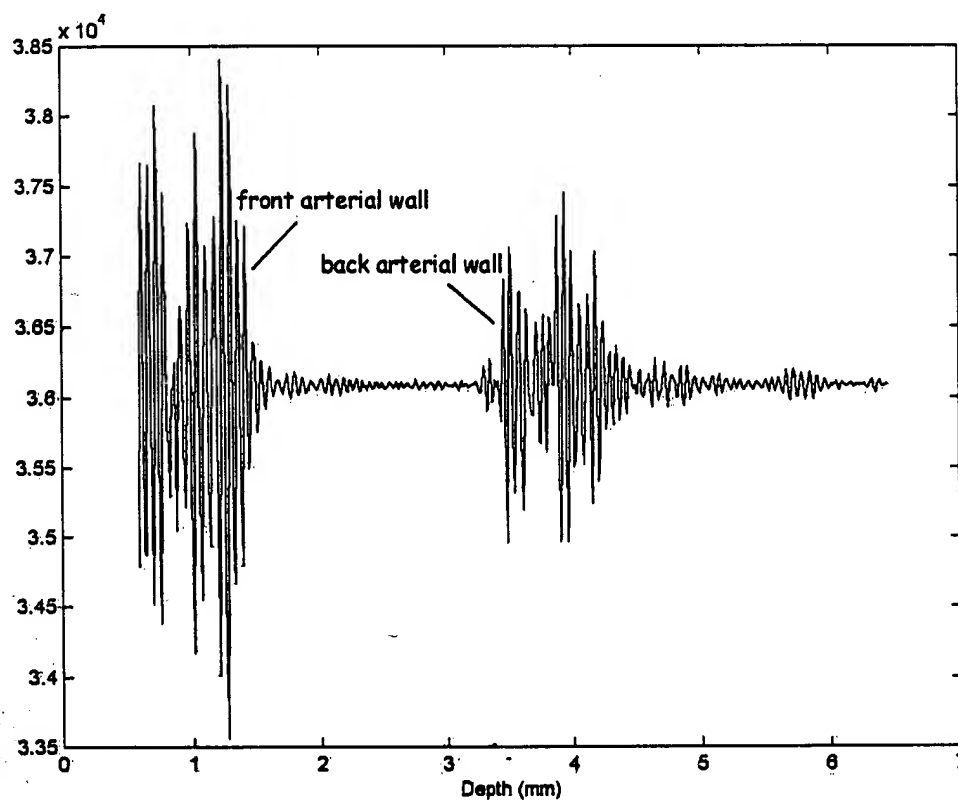


Fig. 2/

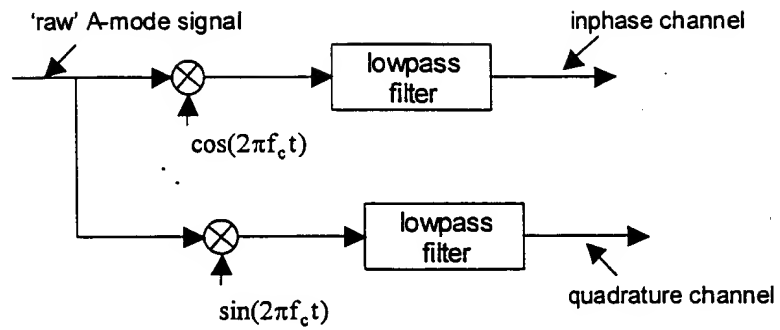


Fig. 24

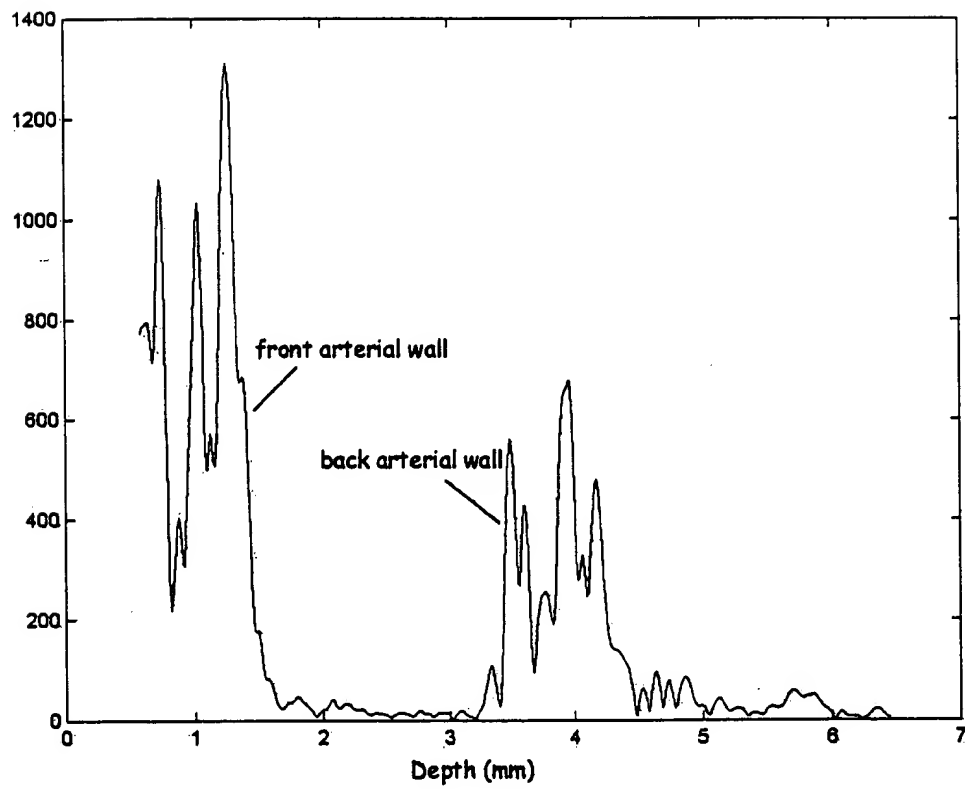
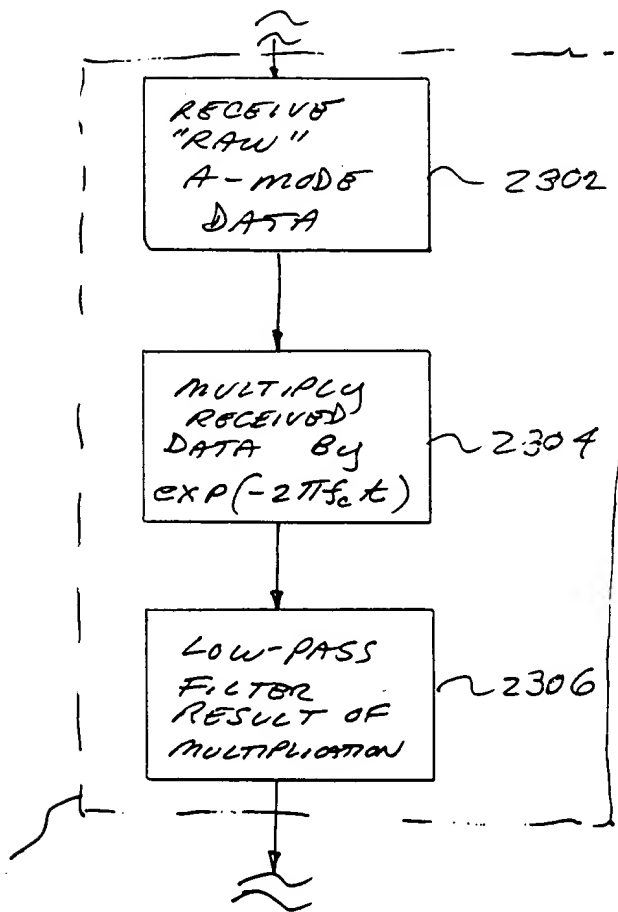


Fig. 22



2042

FIG. 23

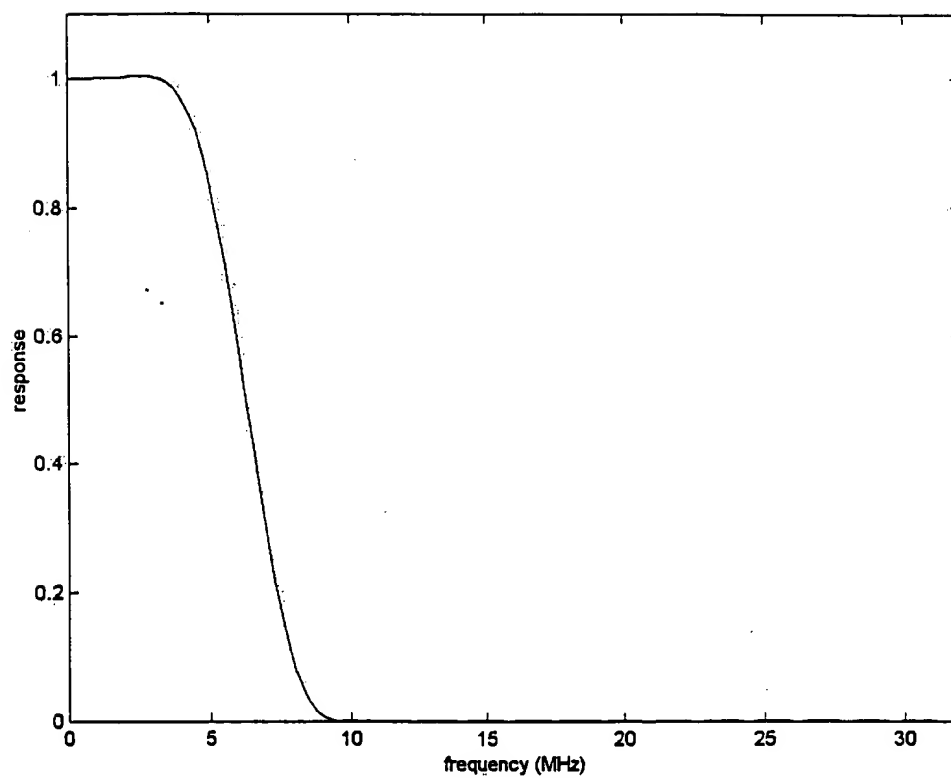


Fig. 25

-1
-1
0
2
4
6
6
2
-6
-16
-25
-26
-16
10
50
98
143
176
188
176
143
98
50
10
-16
-26
-25
-16
-6
6
6
6
4
2
0
-1
-1

FIG. 26

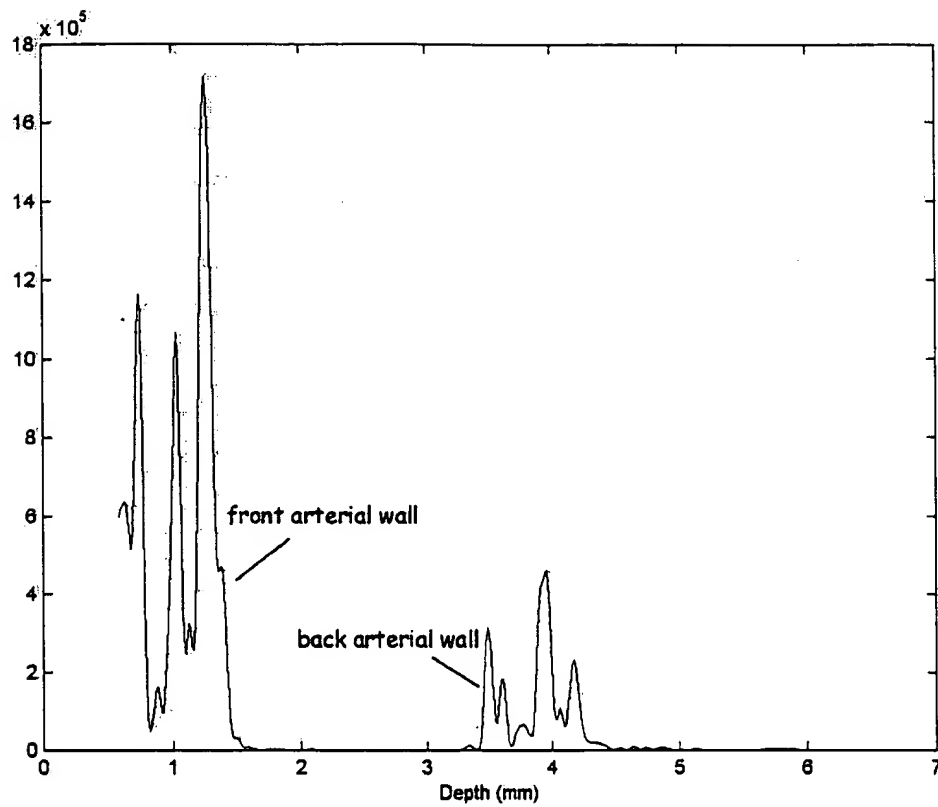


Fig. 27

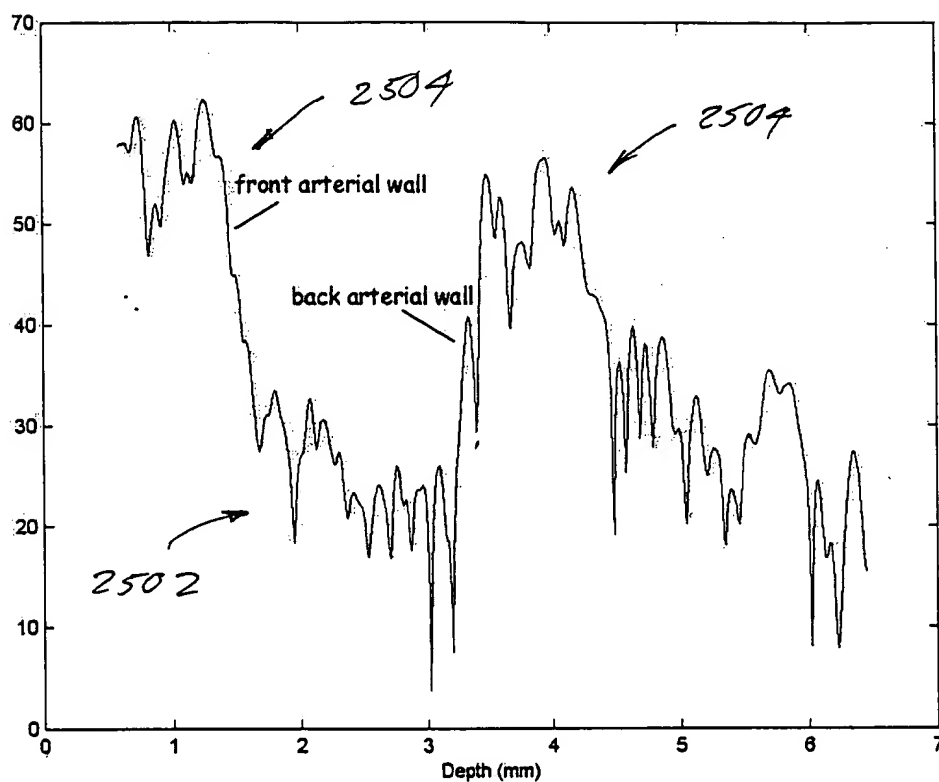


Fig. 28

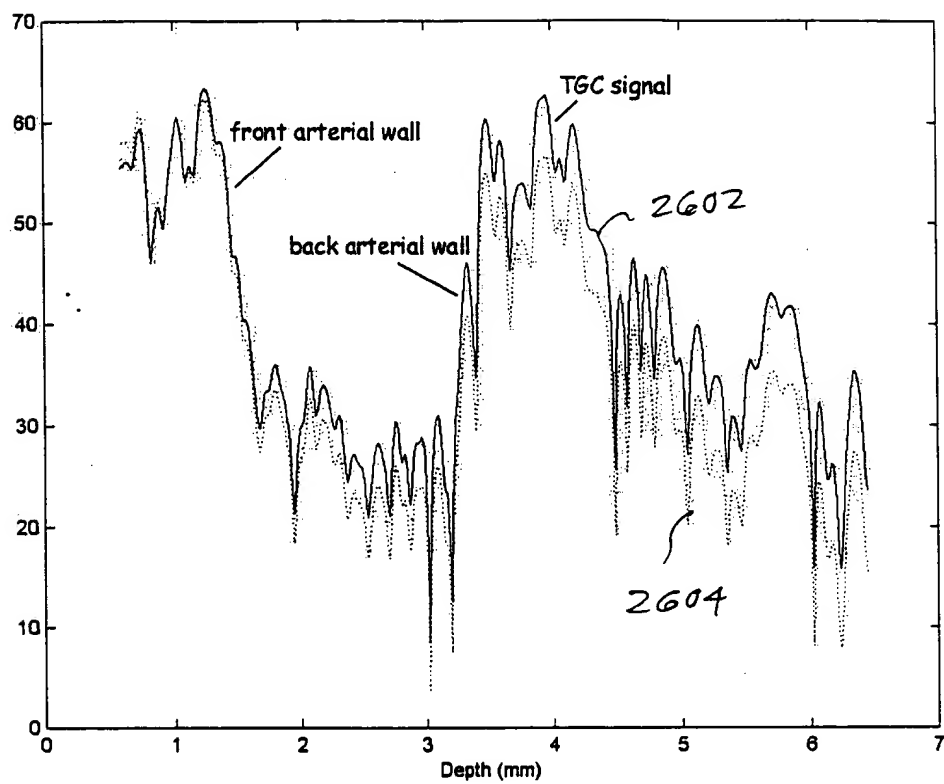


Fig. 29

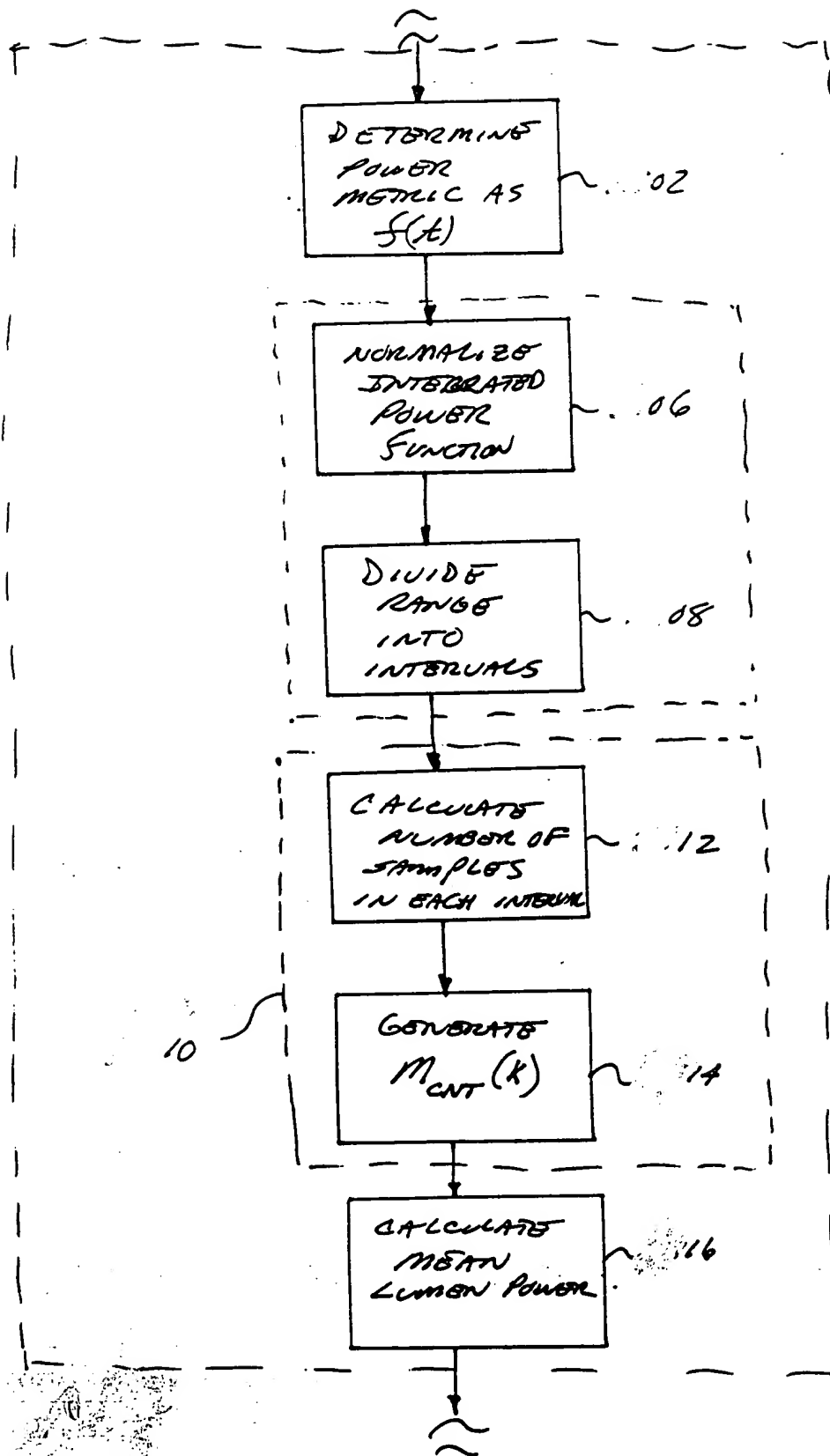


FIG. 30a

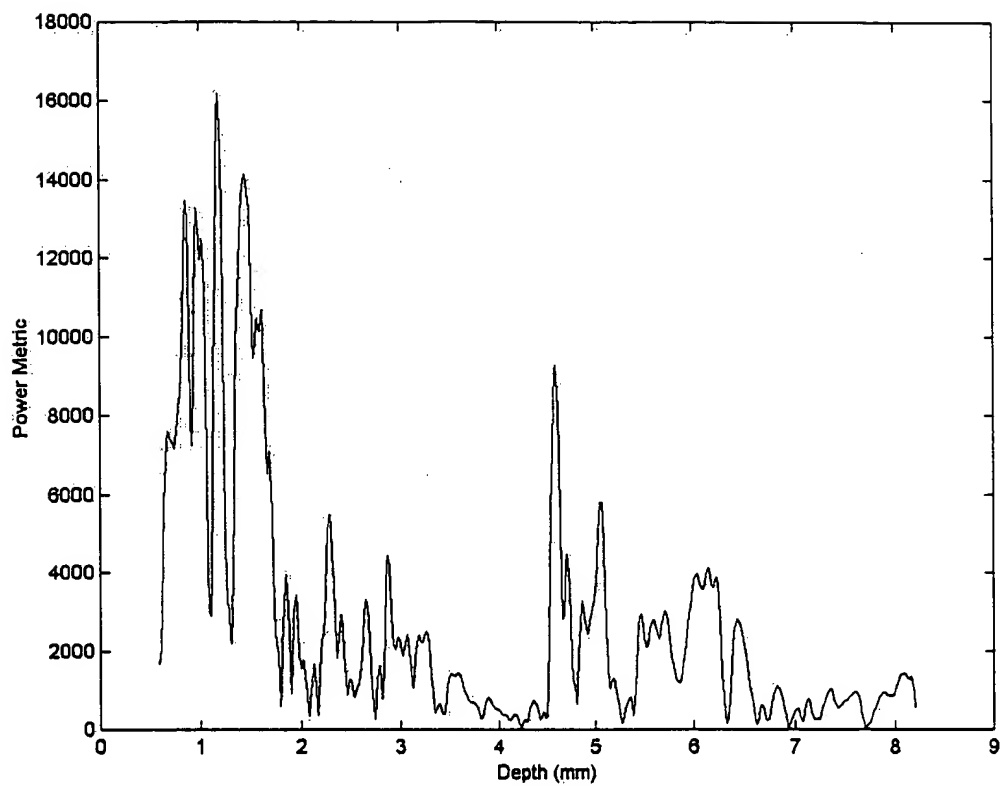


Fig. . . . 306

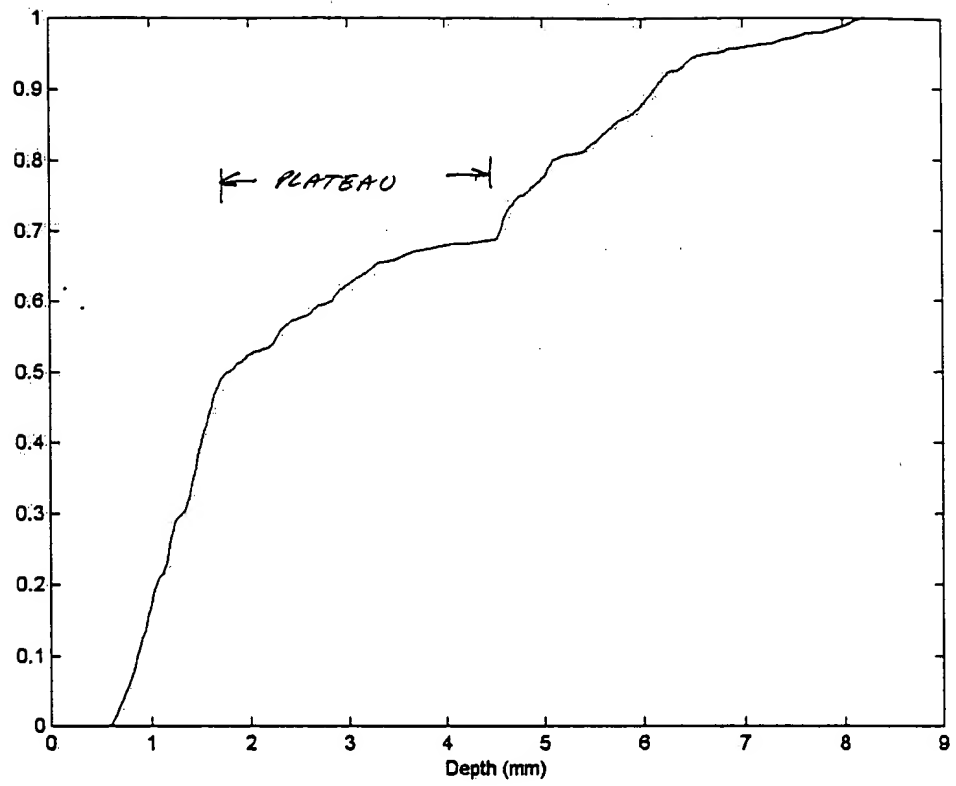


Fig. 30c

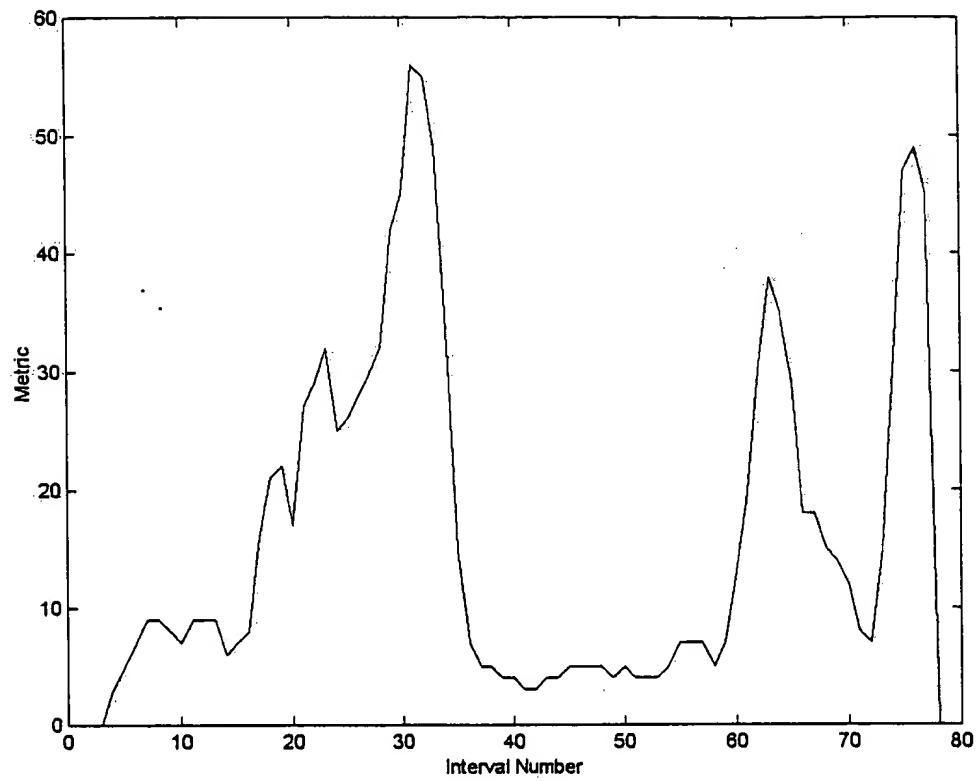


Fig. 30d

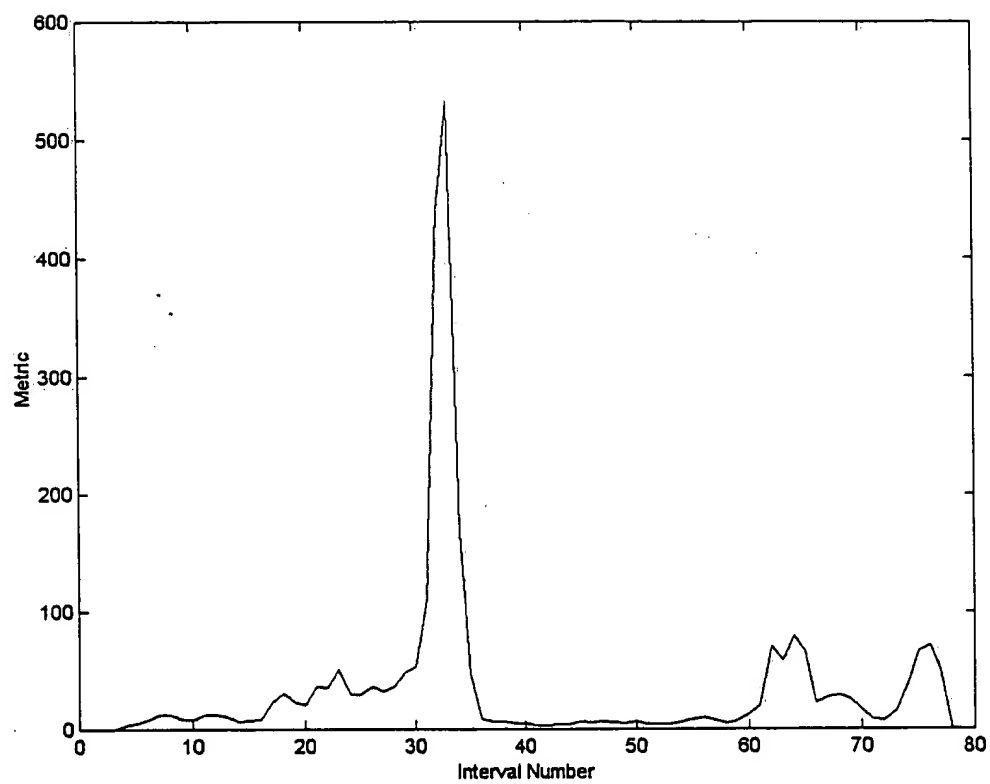


Fig. 30e

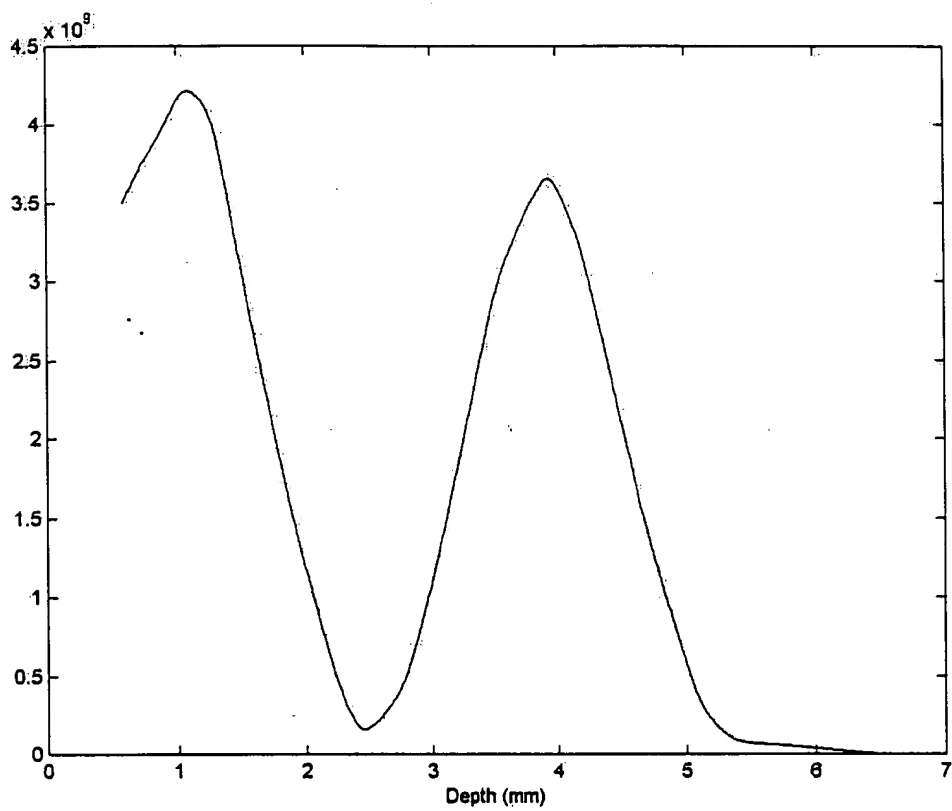


Fig.

3/a

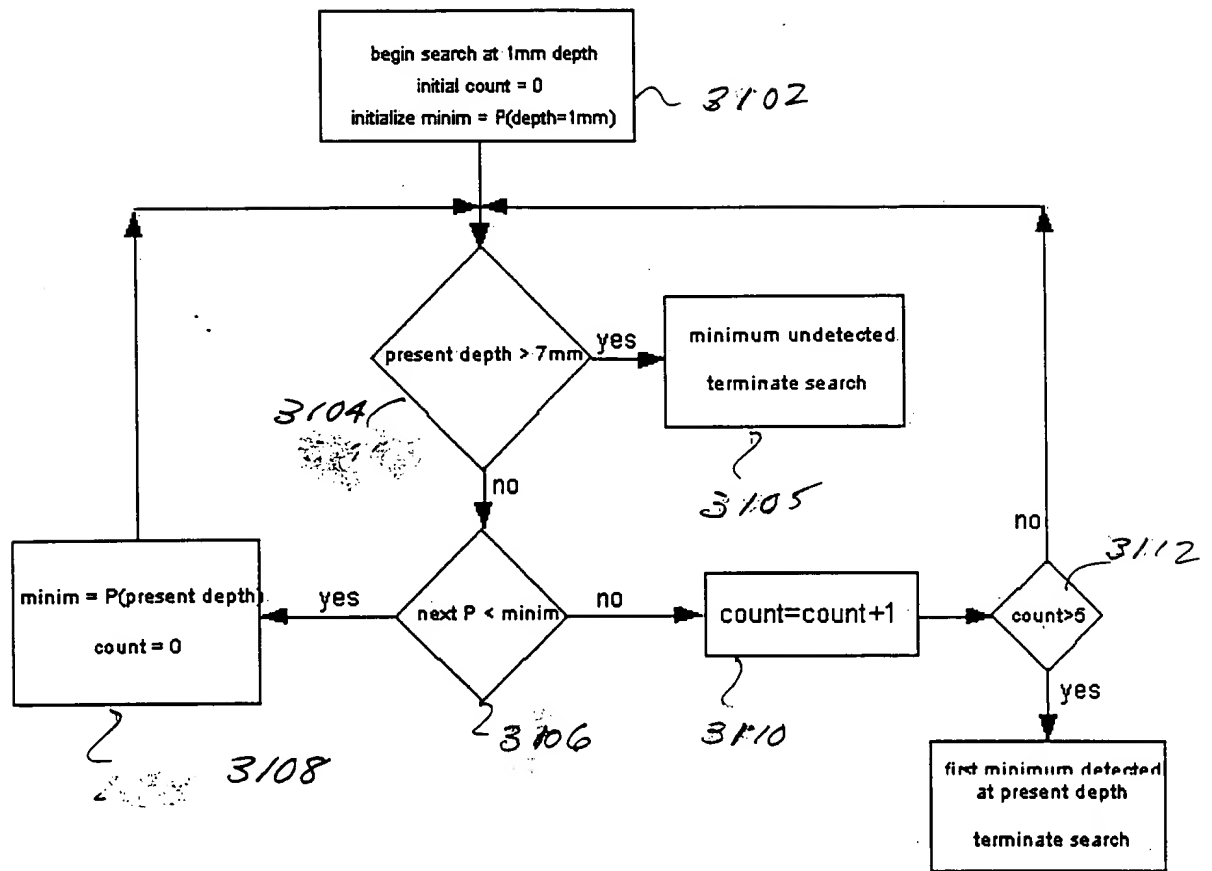
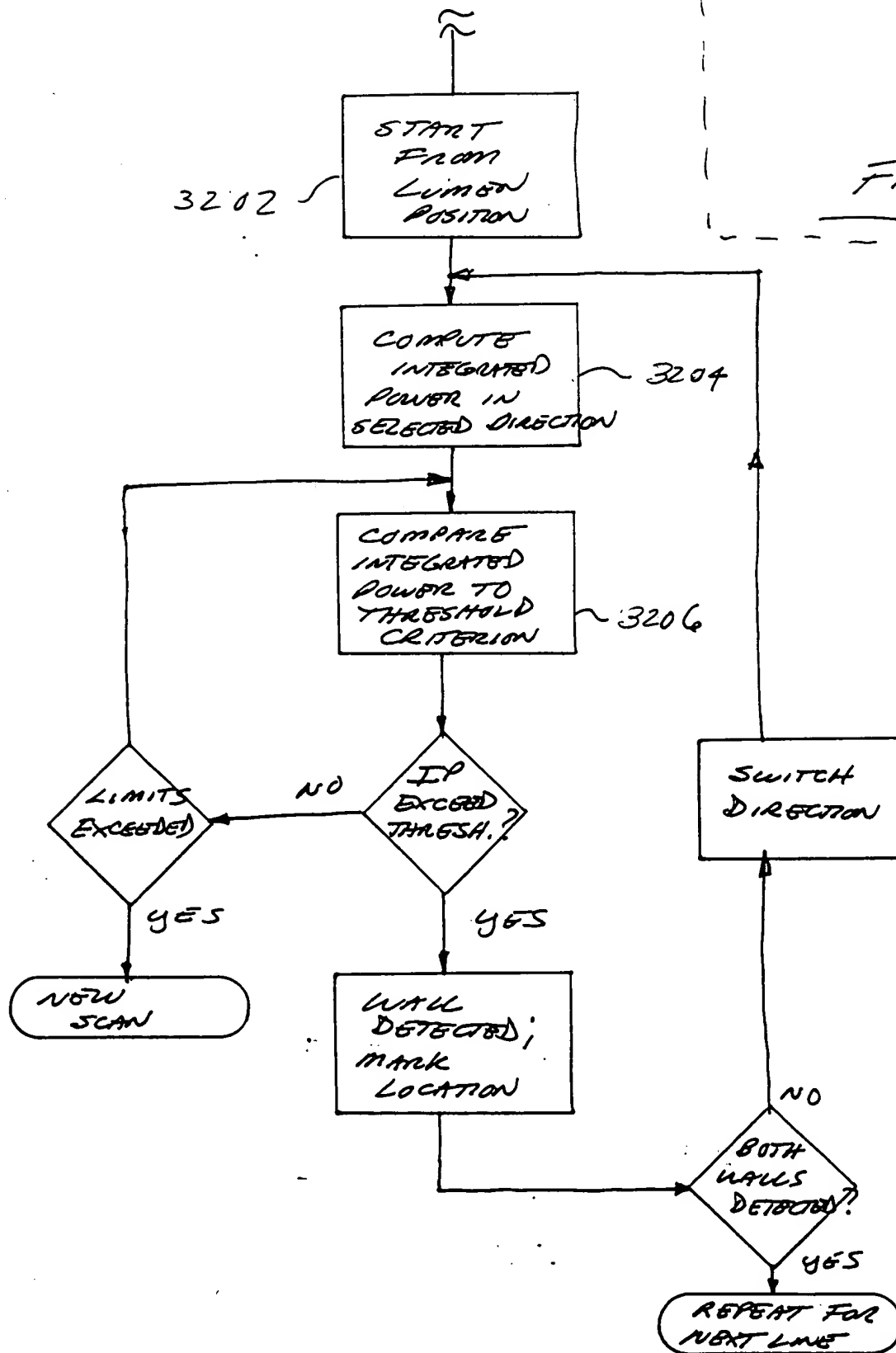
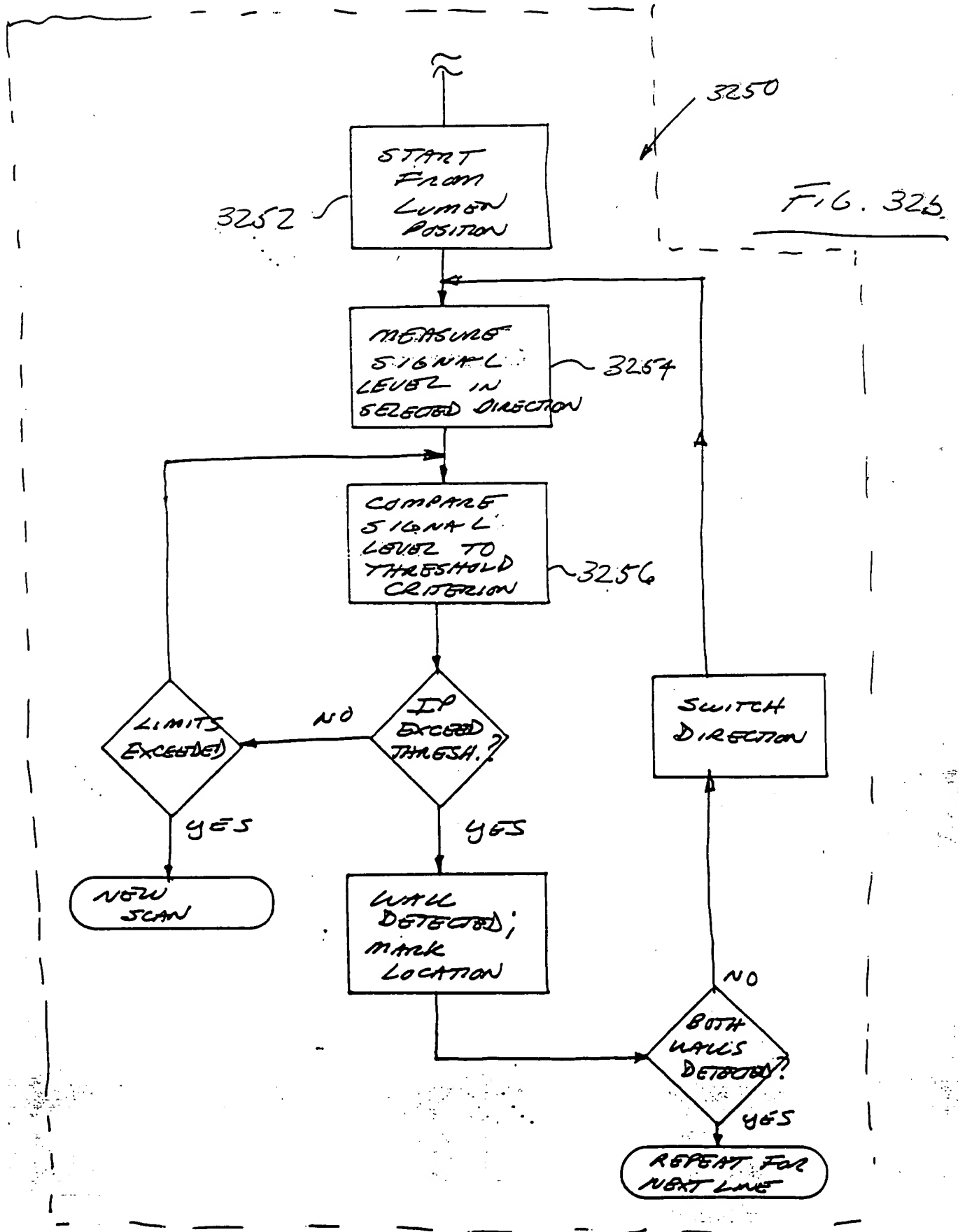


Fig. 3/6

3202

FIG. 322





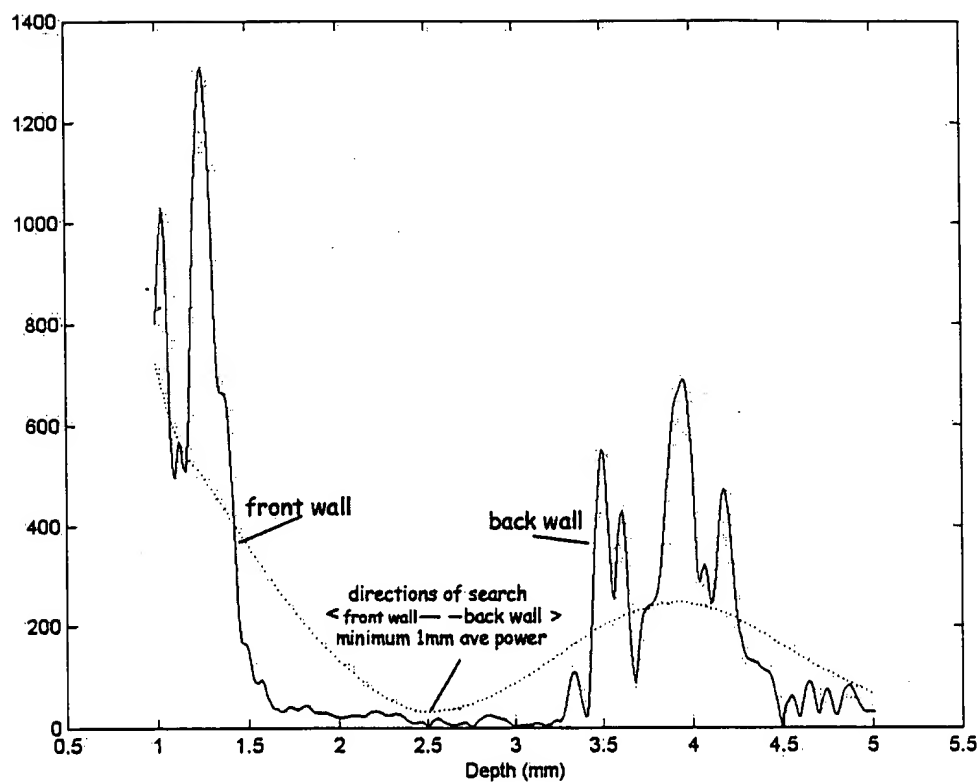


Fig. 33

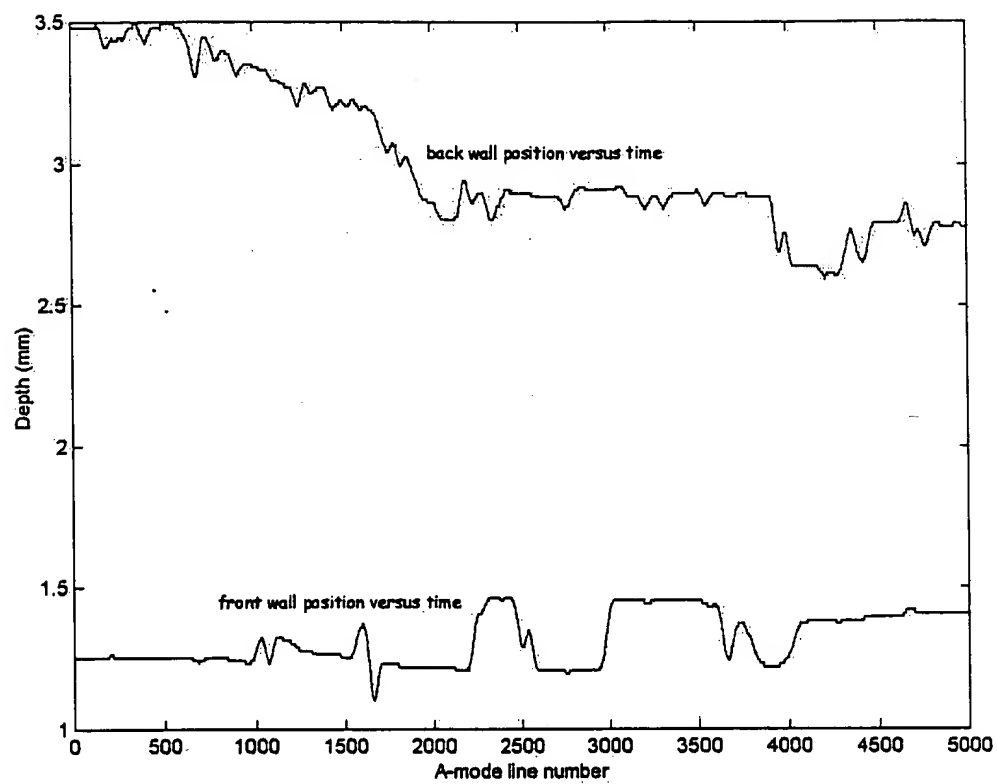


Fig. = 34

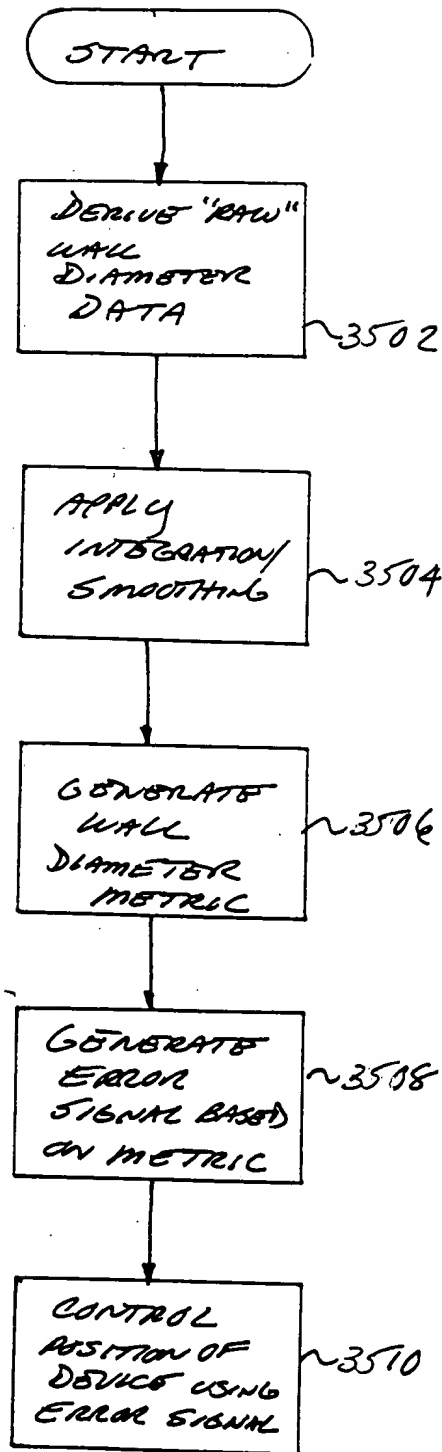


FIG. 35

35.00
↙